

Lumination™ LED Luminaires

LRX Series
LED Downlights




Project name _____
Date _____
Type _____

Product Description:

The Lumination LRX Series LED downlights are the ideal retrofit or new construction solution for traditional downlight fixtures. They install in just minutes into most 4-inch, 6-inch, and 8-inch rough-in frames and bring afresh look to the space. Unlike plug-in LED lamps, the LRX downlight gives you a new power supply and 50,000 hour life rating, so that you won't have to worry about compatibility or maintenance issues with the original ballasts. All downlights in the LRX family utilize a non-conductive poly carbonate trim perfect for wet rated applications.

*LPW based on LRXR8

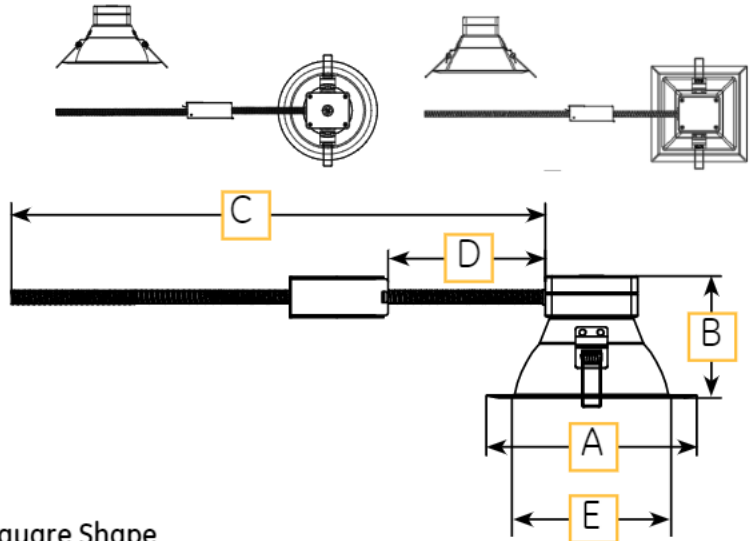
- Input Voltage:** 120 - 277V, 120V (Phase Dimming)
- Standard Dimming Controls:** 0-10V down to 10%, Forward Phase Dim down to 10%**CCT:** 3000K, 3500K, 4000K
- CRI:** 82
- Lifetime Rating:** L85 @ 50,000 Hours
- Input Frequency (Hz):** 50/60Hz
- Power Factor:** >0.9
- Mounting Options:** Spring clips clamp on to existing frame or directly to ceiling
- Weight:** 0.6 lb
- IC Rating:** Non-IC Rated
- Limited Warranty:** 5 years system
- Files Available:** LM79, LM80, IES

Listings:  • UL and cUL Listed.
• Suitable for wet locations



a product of
ecomagination™

Product Dimensions:



Square Shape

- 4 inch:**
A = 5.75" (146 mm) B = 3.74" (95 mm)
C = 24" (609.6 mm) D = 6" (152.4 mm)
E = Ceiling Cutout Min: 4" for ceiling thickness ≤ 10mm; 4.2" for ceiling thickness > 10mm
- 6 inch:**
A = 7.75" (196.8mm) B = 4.5" (114.2mm)
C = 24" (609.6mm) D = 6" (152.4mm)
E = Ceiling Cutout Min: 5.6"
- 8 inch:**
A = 9.75" (247.6mm) B = 5.1" (129.4mm)
C = 24" (609.6mm) D = 6" (152.4mm)
E = Ceiling Cutout Min: 7.6"

Round Shape

- 4-inch**
A = 5.6" (142.3 mm) B = 3.74" (95 mm)
C = 24" (609.6 mm) D = 6" (152.4 mm)
E = Ceiling Cutout Min: 4.4"
- 6-inch**
A = 7.75" (196.8 mm) B = 4.5" (114.2 mm)
C = 24.0" (609.6 mm) D = 6" (152.4 mm)
E = Ceiling Cutout Min: 5.7"
- 8-inch**
A = 9.75" (247.6 mm) B = 5.1" (129.4 mm)
C = 24.0" (609.6 mm) D = 6" (152.4 mm)
E = Ceiling Cutout Min: 7.7"

Ordering Information:

PRODUCT FAMILY	SHAPE/SIZE	LUMENS	CRI	CCT	DIMMING	OPTIONS
LRX = Lumination RX Series Downlight	R4 = 4" Round Retrofit Downlight S4 = 4" Square Retrofit Downlight	10 ¹ = 1000lm/650lm	8 = 82 CRI	30 = 3000K 35 = 3500K 40 = 4000K	MD = 0-10V Dimming PH ³ = 120V Forward Phase Dimmable ³ Forward Phase Dimmable only available in Round Shape	BLANK = None EL ⁴ = EMBB Ready ⁴ Must order "EL" option - LRXEMBBKIT (sold separately) for complete EMBB solution.
	R6 = 6" Round Retrofit Downlight S6 = 6" Square Retrofit Downlight	10 ¹ = 1000lm/650lm 18 = 1800lm				
	R8 = 8" Round Retrofit Downlight S8 = 8" Square Retrofit Downlight	10 ¹ = 1000lm/650lm 18 = 1800lm 30 = 3000lm 40 ² = 4000lm				

The standard trim is white. Colored trim options are available, please see page 2 for details.

¹1000lm models feature a selectable lumen package to allow field adjustments to light output. See page 2 for further info.
²4000lm model only available with phase dimming and Round Shape

Delivered Lumen Multipliers

CCT	MULTIPLIERS
4000K	1
3500K	0.98
3000K	0.94

Performance Summary:

0-10V Dimming

NOMINAL LUMENS	650	1000	1800	3000
Delivered Lumens-LRX*4	700	1020	N/A	N/A
Delivered Lumens-LRX*6	700	1050	1900	N/A
Delivered Lumens-LRX*8	750	1200	2000	3300
System Input Power (W)	8.5	13	22	35
System Efficacy (LPW)	88	92	91	94

Forward Phase Dimming

NOMINAL LUMENS	650	1000	1800	3000	4000
Delivered Lumens-LRXR4	620	990	N/A	N/A	N/A
Delivered Lumens-LRXR6	660	1060	1820	N/A	N/A
Delivered Lumens-LRXR8	710	990	1960	3180	4080
System Input Power (W)	7	11	19	29	41
System Efficacy (LPW)	101	103	103	109	99

* LPW based off of LRXR8 delivered lumens





current
powered by GE



Accessories:

PRODUCT DESCRIPTION	MATERIAL DESCRIPTION	MATERIAL	NOTES
6" WHITE PAINTED GOOF RING	GRRC6RPTWT	93018829	RECOMMENDED FOR OVER-SIZED HOLES IN CEILING
8" WHITE PAINTED GOOF RING	GRRC8RPTWT	93018831	RECOMMENDED FOR OVER-SIZED HOLES IN CEILING
4" NEW CONSTRUCTION FRAME KIT	FRAME4R	93090208	RECOMMENDED FOR NEW CONSTRUCTION APPLICATIONS
6" NEW CONSTRUCTION FRAME KIT	FRAME6R	93025091	RECOMMENDED FOR NEW CONSTRUCTION APPLICATIONS
8" NEW CONSTRUCTION FRAME KIT	FRAME8R	93025092	RECOMMENDED FOR NEW CONSTRUCTION APPLICATIONS
ENLIGHTED SENSOR KIT	LCACBAVQNUNGALV	93029451	SEE LCA KIT LITERATURE & INSTALL GUIDE
DAINTREE SENSOR KIT	LCACBAVTQUNGALV	93057194	SEE LCA KIT LITERATURE & INSTALL GUIDE
EMERGENCY BATTERY BACKUP KIT (7W)	LRXEMBBKIT07	93043031	7 WATT EMBB QUICK CONNECT KIT (MUST HAVE FIXTURE WITH "EL" OPTION)
EMERGENCY BATTERY BACKUP KIT (10W)	LRXEMBBKIT10	93043540	10 WATT EMBB QUICK CONNECT KIT (MUST HAVE FIXTURE WITH "EL" OPTION)
6" WHITE PAINTED GOOF RING	GRLRXS6PTWT	93051908	RECOMMENDED FOR OVER-SIZED HOLES IN CEILING
8" WHITE PAINTED GOOF RING	GRLRXS8PTWT	93051909	RECOMMENDED FOR OVER-SIZED HOLES IN CEILING
4" NEW CONSTRUCTION FRAME KIT	FRAME4S	93090209	RECOMMENDED FOR NEW CONSTRUCTION APPLICATIONS
6" NEW CONSTRUCTION FRAME KIT	FRAME6S	93045426	RECOMMENDED FOR NEW CONSTRUCTION APPLICATIONS
8" NEW CONSTRUCTION FRAME KIT	FRAME8S	93045427	RECOMMENDED FOR NEW CONSTRUCTION APPLICATIONS
347V KIT	LRX347V277	93036250	347V TRANSFORMER QUICK CONNECT KIT

Colored Trim Options (Round) :

PRODUCT DESCRIPTION	MATERIAL DESCRIPTION	MATERIAL	LUMEN OUTPUT
 LRXR6 ROUND 6" TRIM INSERT, BLACK	LRXR6TRIMBL	93059501	70%
 LRXR6 ROUND 6" TRIM INSERT, SILVER	LRXR6TRIMSV	93059502	90%
 LRXR8 ROUND 8" TRIM INSERT, BLACK (NOT AVAILABLE IN 3000LM)	LRXR8TRIMBL	93059503	70%
 LRXR8 ROUND 8" TRIM INSERT, SILVER (NOT AVAILABLE IN 3000LM)	LRXR8TRIMSV	93059504	85%

Photometric Data: Lumination™ LRX Series Downlights

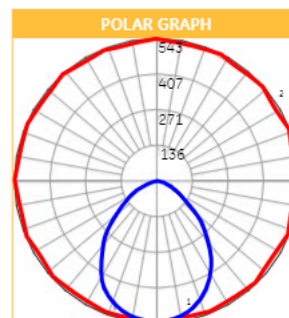
LRXR410830MD

LUMINANCE DATA (CD/SQ.M)				
Angle	0°	45°	90°	
45°	44163	43507	44576	
55°	31383	30998	31794	
65°	19283	19142	19599	
75°	12977	12649	12986	
85°	6327	6456	8002	

ZONAL LUMEN SUMMARY	
Zone	Lumens
0-10	50.98
10-20	143.53
20-30	208.85
30-40	226.68
40-50	194.68
50-60	131.45
60-70	66.78
70-80	29.04
80-90	6.9
90-100	0.04
100-110	0.04
110-120	0.03
120-130	0.02
130-140	0.02
140-150	0.02
150-160	0.02
160-170	0.01
170-180	0.00

COEFFICIENTS OF UTILIZATION																							
RC	80%								70%				50%				30%			10%		0%	
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88					
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77					
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67					
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61	59					
5	81	70	62	56	79	69	62	56	67	60	55	65	59	55	63	58	54	52					
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47					
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	53	48	44	42					
8	66	54	46	41	65	53	46	40	52	45	40	51	44	40	49	44	40	38					
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	40	36	35					
10	58	46	39	34	57	46	38	34	45	38	34	44	38	33	43	37	33	32					

ZONAL LUMEN SUMMARY			
Zone	Lumens	% of Lamp	% of Fixture
0-20	194.51	N.A.	18.4
0-30	403.36	N.A.	38.1
0-40	630.04	N.A.	59.5
0-60	956.17	N.A.	90.3
0-80	1052	N.A.	99.3
0-90	1058.9	N.A.	100



Photometric Data: Lumination™ LRX Series Downlights

LRXR610830MD

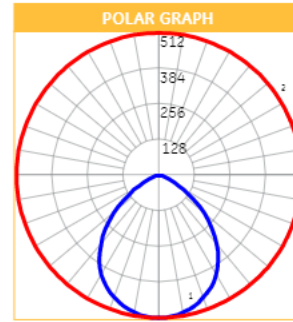
ZONAL LUMEN SUMMARY	
Zone	Lumens
0-10°	48.26
10-20°	135.99
20-30°	199.14
30-40°	221.96
40-50°	188.12
50-60°	118.95
60-70°	54.04
70-80°	25.47
80-90°	7.78
90-100°	0.06
100-110°	0.02
110-120°	0.03
120-130°	0.03
130-140°	0.04
140-150°	0.05
150-160°	0.05
160-170°	0.03
170-180°	0.01

COEFFICIENTS OF UTILIZATION																			
RC	80%				70%				50%				30%				10%		0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88	
2	103	96	90	85	100	94	89	85	91	86	83	87	84	81	85	82	79	77	
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68	
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	62	60	
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6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47	
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	48	44	43	
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	39	
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35	
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32	

NOTE: Floor Cavity Reflectance : 20%

ZONAL LUMEN SUMMARY		
Zone	Lumens	% of Fixture
0-20°	184.25	18.40
0-30°	383.39	38.30
0-40°	605.34	60.50
0-60°	912.41	91.20
0-80°	991.92	99.20
0-90°	999.70	100.00

LUMINANCE DATA [CANDELA/m²]			
Gamma	0°	45°	90°
45°	17519	17519	17519
55°	11682	11682	11682
65°	6286	6286	6286
75°	4723	4723	4723
85°	4000	4000	4000



LRXR818830MD

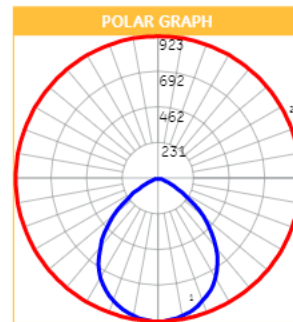
ZONAL LUMEN SUMMARY	
Zone	Lumens
0-10°	87.00
10-20°	245.00
20-30°	357.94
30-40°	405.72
40-50°	355.72
50-60°	213.19
60-70°	84.35
70-80°	37.58
80-90°	10.61
90-100°	0.07
100-110°	0.14
110-120°	0.29
120-130°	0.44
130-140°	0.54
140-150°	0.55
150-160°	0.48
160-170°	0.31
170-180°	0.10

COEFFICIENTS OF UTILIZATION																			
RC	80%				70%				50%				30%				10%		0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
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2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	79	78	
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68	
4	88	78	71	65	86	77	70	65	75	68	64	72	67	63	70	66	62	60	
5	82	71	63	57	80	70	63	57	68	61	56	66	60	56	64	59	55	53	
6	76	65	57	51	75	64	56	51	62	55	50	60	54	50	59	54	50	48	
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	43	
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39	
9	62	50	43	38	61	50	42	38	49	42	37	47	41	37	47	41	37	35	
10	59	47	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32	

NOTE: Floor Cavity Reflectance : 20%

ZONAL LUMEN SUMMARY		
Zone	Lumens	% of Fixture
0-20°	332.00	18.40
0-30°	689.94	38.30
0-40°	1095.66	60.90
0-60°	1664.57	92.50
0-80°	1786.51	99.20
0-90°	1797.12	99.80

LUMINANCE DATA [CANDELA/m²]			
Gamma	0°	45°	90°
45°	8251	8251	8251
55°	4433	4433	4433
65°	1645	1645	1645
75°	827	827	827
85°	263	263	263



Photometric Data: Lumination™ LRX Series Downlights

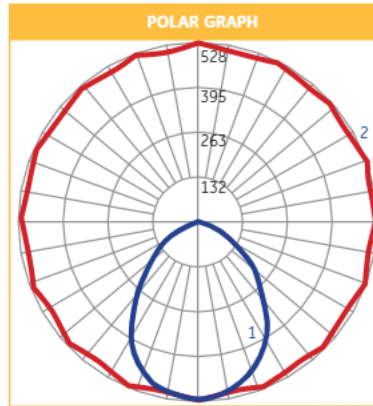
LRXS410830MD

LUMINANCE DATA (CD/SQ.M)			
Angle	0°	45°	90°
45°	35273	36299	35256
55°	27588	27635	27301
65°	18968	18839	18210
75°	8602	9764	7882
85°	6858	7083	5183

ZONAL LUMEN SUMMARY	
Zone	Lumens
0-10	48.79
10-20	136.05
20-30	195.03
30-40	214.18
40-50	192.29
50-60	143.00
60-70	81.10
70-80	27.89
80-90	6.20
90-100	0.79
100-110	0.65
110-120	0.37
120-130	0.23
130-140	0.18
140-150	0.13
150-160	0.10
160-170	0.06
170-180	0.01

COEFFICIENTS OF UTILIZATION																			
RC	80%				70%				50%				30%				10%		0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100
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2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	83	80	78	76	76
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66	66
4	87	76	68	63	85	75	68	62	73	66	61	70	65	60	68	64	60	58	58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51	51
6	75	63	54	49	73	62	54	48	60	53	48	58	52	48	57	51	47	45	45
7	70	57	49	44	68	56	49	43	55	48	43	54	47	43	52	47	42	41	41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33	33
10	57	45	38	33	56	44	37	33	43	37	32	43	37	32	42	36	32	30	30

ZONAL LUMEN SUMMARY			
Zone	Lumens	% of Lamp	% of Fixture
0-20	184.85	N.A.	17.7
0-30	379.88	N.A.	36.3
0-40	594.06	N.A.	56.7
0-60	929.35	N.A.	88.8
0-80	1038.34	N.A.	99.2
0-90	1044.54	N.A.	99.8



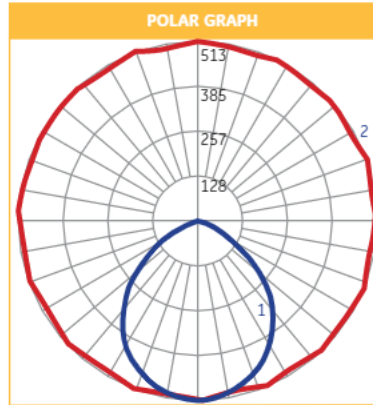
LRXS610830MD

LUMINANCE DATA (CD/SQ.M)			
Angle	0°	45°	90°
45°	17826	19831	17826
55°	12430	14165	12430
65°	6627	8018	6627
75°	3963	4079	3963
85°	3057	3057	3057

ZONAL LUMEN SUMMARY	
Zone	Lumens
0-10	48.40
10-20	137.38
20-30	203.26
30-40	229.80
40-50	202.64
50-60	136.51
60-70	63.03
70-80	22.61
80-90	6.12
90-100	0.03
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.02
140-150	0.06
150-160	0.05
160-170	0.03
170-180	0.01

COEFFICIENTS OF UTILIZATION																			
RC	80%				70%				50%				30%				10%		0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	84	81	79	77	77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67	67
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61	59	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52	52
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47	47
7	70	58	50	45	69	57	50	44	56	49	44	55	48	44	53	48	44	42	42
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38	38
9	62	49	42	37	60	49	41	36	48	41	36	47	40	36	46	40	36	34	34
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31	31

ZONAL LUMEN SUMMARY			
Zone	Lumens	% of Lamp	% of Fixture
0-20	185.78	N.A.	17.70
0-30	389.04	N.A.	37.10
0-40	618.84	N.A.	58.90
0-60	957.99	N.A.	91.20
0-80	1043.63	N.A.	99.40
0-90	1049.74	N.A.	100.00



Photometric Data: Lumination™ LRX Series Downlights

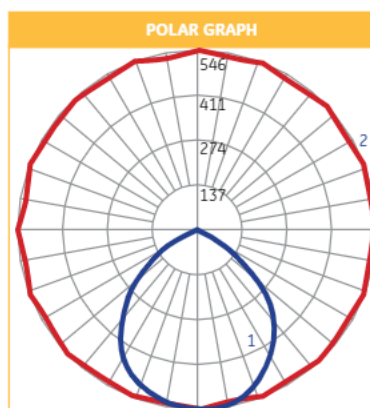
LRXS810830MD

LUMINANCE DATA (CD/SQ_M)			
Angle	0°	45°	90°
45°	11581	12804	11581
55°	7966	10235	7966
65°	3805	5993	3805
75°	2116	3248	2116
85°	1680	3547	1680

ZONAL LUMEN SUMMARY	
Zone	Lumens
0-10	51.81
10-20	147.65
20-30	220.84
30-40	258.58
40-50	243.12
50-60	169.22
60-70	75.23
70-80	25.23
80-90	7.77
90-100	0.37
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.05
150-160	0.05
160-170	0.03
170-180	0.01

COEFFICIENTS OF UTILIZATION																					
RC	80%				70%				50%				30%				10%				0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100		
1	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	90	88		
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76	76		
3	94	85	78	73	92	84	77	72	81	75	71	78	73	69	76	72	68	66	66		
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58	58		
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51	51		
6	75	63	55	49	73	62	54	49	60	53	48	58	52	48	57	52	47	45	45		
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41	41		
8	65	52	45	39	64	52	44	39	50	44	39	49	43	39	48	43	38	37	37		
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33	33		
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30	30		

ZONAL LUMEN SUMMARY			
Zone	Lumens	% of Lamp	% of Fixture
0-20	199.46	N.A.	16.6
0-30	420.3	N.A.	35
0-40	678.88	N.A.	56.6
0-60	1091.22	N.A.	90.9
0-80	1191.68	N.A.	99.3
0-90	1199.45	N.A.	100



Selectable Driver Package:

The LRX Series comes with a new Selectable Driver Package which allows customers to manually switch from full power (1000lm) to lower power (650lm) with just the switch of a button. This affords unprecedented flexibility for distributors to stock fewer SKUs. Reduces install risk by effectively having 2 lumen levels in 1 simple package.



*This feature is only available in the 1000/650lm package.

Product Specifications:

Construction:

- 16 gauge Aluminum spinning reflector housing, powder coating
- Custom engineered heat sink flange for passive cooling on all lumen options

Installation:

- Fixture mounting to an existing metal frame
- Conduit connect to quick-disconnect for easy installation

Optical System:

- Custom engineered reflectors for wide distributions.
- Semi-diffuse diffuser for ideal combination of optical efficiency and uniformity

Electrical System:

- High Efficiency, integrated driver with 0-10V dimming or Forward Phase Dimming
- Selectable Lumen Driver available in the 1000/650lm package.

For more information and access to all of our resources, including our design tool visit: www.gelighting.com

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