

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P296682

Luminaire Tested: **22RLN-LD5-35-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296682  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36060-R2)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22RLN-LD5-35-RDP-UNV-L92765-W2A1-U-2700K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2250.0 lumens  
Efficiency: N/A  
Efficacy: 80.9 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

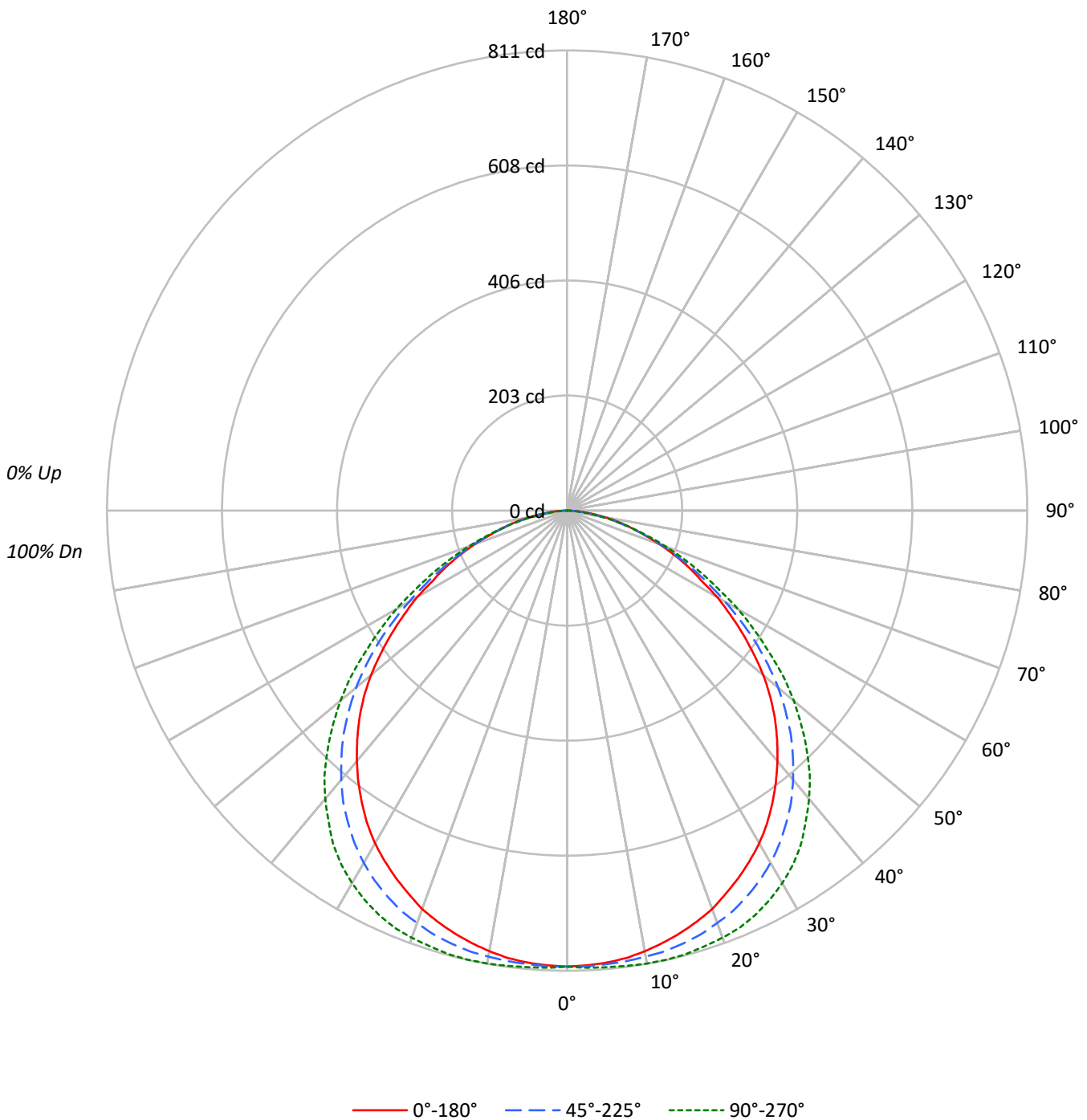
Input Watts (W): 27.807  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
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
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2163	2163	2163
5°	2160	2167	2182
10°	2155	2181	2215
15°	2147	2201	2254
20°	2140	2215	2294
25°	2121	2227	2333
30°	2104	2228	2356
35°	2071	2211	2360
40°	2025	2175	2330
45°	1969	2121	2273
50°	1890	2034	2184
55°	1769	1905	2034
60°	1644	1733	1874
65°	1507	1560	1665
70°	1364	1386	1451
75°	1202	1173	1216
80°	1044	959	917
85°	849	636	553



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.5	3.4
10°-20°	223.2	9.9
20°-30°	345.7	15.4
30°-40°	420.8	18.7
40°-50°	428.6	19.0
50°-60°	361.4	16.1
60°-70°	244.5	10.9
70°-80°	122.2	5.4
80°-90°	27.2	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	645.4	28.7
0°-40°	1066.2	47.4
0°-60°	1856.2	82.5
0°-90°	2250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2250.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	800	801	802	806	808	76
15°	771	776	790	804	809	218
25°	714	725	750	775	786	329
35°	630	644	673	705	718	394
45°	518	527	557	586	597	398
55°	377	383	406	425	434	337
65°	237	233	245	256	262	234
75°	116	112	113	114	117	124
85°	28	23	21	18	18	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	803.7	803.7	803.7	803.7	803.7
2.5°	802.3	802.3	803.7	805.1	806.5
5°	799.6	801.0	802.3	806.5	807.8
7.5°	795.5	796.8	801.0	806.5	809.2
10°	788.6	791.3	798.2	806.5	810.6
12.5°	780.3	784.4	795.5	805.1	810.6
15°	770.7	776.2	789.9	803.7	809.2
17.5°	759.7	766.5	783.1	798.2	805.1
20°	747.3	755.5	773.4	792.7	801.0
22.5°	730.8	741.8	763.8	785.8	795.5
25°	714.3	725.3	750.0	774.8	785.8
27.5°	696.4	708.7	734.9	762.4	773.4
30°	677.1	688.1	717.0	745.9	758.3
32.5°	655.1	666.1	696.4	726.6	740.4
35°	630.3	644.1	673.0	704.6	718.4
37.5°	604.2	616.5	648.2	678.5	690.9
40°	576.6	589.0	619.3	650.9	663.3
42.5°	547.7	560.1	589.0	619.3	633.1
45°	517.5	527.1	557.4	586.3	597.3
47.5°	485.8	492.7	521.6	549.1	560.1
50°	451.4	458.3	485.8	510.6	521.6
52.5°	414.2	419.7	445.9	467.9	480.3
55°	377.1	382.6	406.0	425.2	433.5
57.5°	339.9	342.7	363.3	382.6	390.8
60°	305.5	305.5	322.0	337.2	348.2
62.5°	265.6	269.7	282.1	297.3	301.4
65°	236.7	232.6	245.0	256.0	261.5
67.5°	203.7	200.9	209.2	218.8	221.6
70°	173.4	169.3	176.2	181.7	184.4
72.5°	141.7	140.4	143.1	147.3	148.6
75°	115.6	111.5	112.8	114.2	117.0
77.5°	92.2	85.3	86.7	85.3	86.7
80°	67.4	61.9	61.9	60.6	59.2
82.5°	45.4	42.7	39.9	37.2	35.8
85°	27.5	23.4	20.6	17.9	17.9
87.5°	11.0	8.3	6.9	6.9	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)