

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: P296640

Luminaire Tested: **22RLN-LD5-35-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296640  
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-L93050-W2A1-U-3000K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2234.0 lumens  
Efficiency: N/A  
Efficacy: 78.2 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

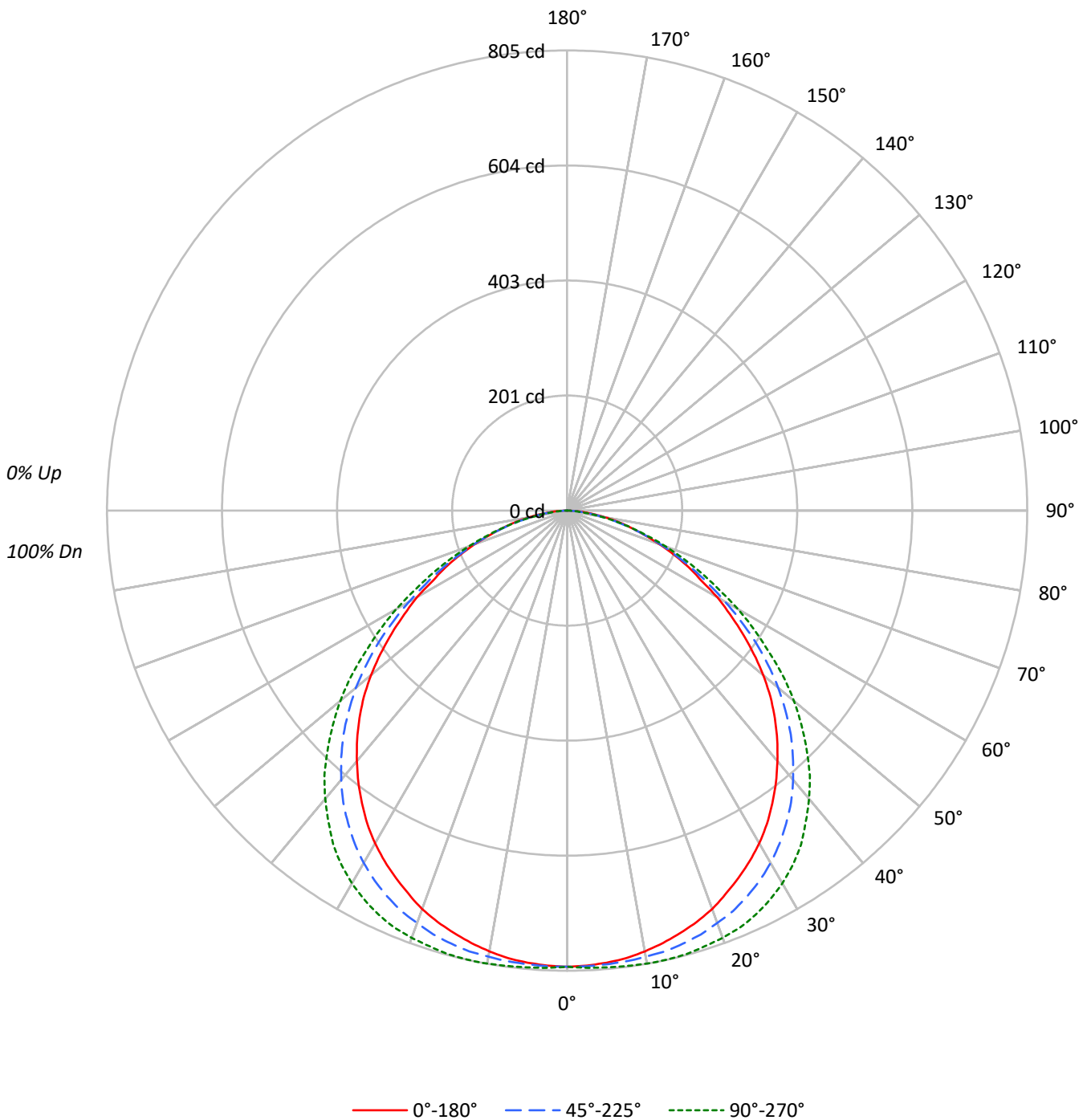
Input Watts (W): 28.551  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2147	2147	2147
5°	2145	2152	2167
10°	2140	2165	2199
15°	2132	2185	2238
20°	2125	2199	2277
25°	2106	2211	2317
30°	2089	2212	2339
35°	2056	2195	2343
40°	2011	2160	2314
45°	1955	2106	2257
50°	1876	2019	2168
55°	1757	1891	2019
60°	1632	1721	1861
65°	1496	1549	1653
70°	1355	1376	1441
75°	1194	1164	1207
80°	1038	953	911
85°	843	633	550



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.0	3.4
10°-20°	221.6	9.9
20°-30°	343.3	15.4
30°-40°	417.8	18.7
40°-50°	425.5	19.0
50°-60°	358.8	16.1
60°-70°	242.7	10.9
70°-80°	121.3	5.4
80°-90°	27.0	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°	640.8	28.7
0°-40°	1058.6	47.4
0°-60°	1843.0	82.5
0°-90°	2234.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2234.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	798	798	798	798	798	
5°	794	795	797	801	802	75
15°	765	771	784	798	804	216
25°	709	720	745	769	780	327
35°	626	640	668	700	713	391
45°	514	523	553	582	593	396
55°	374	380	403	422	430	335
65°	235	231	243	254	260	232
75°	115	111	112	113	116	123
85°	27	23	20	18	18	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	798.0	798.0	798.0	798.0	798.0
2.5°	796.6	796.6	798.0	799.4	800.7
5°	793.9	795.3	796.6	800.7	802.1
7.5°	789.8	791.2	795.3	800.7	803.5
10°	783.0	785.7	792.5	800.7	804.8
12.5°	774.8	778.9	789.8	799.4	804.8
15°	765.2	770.7	784.3	798.0	803.5
17.5°	754.3	761.1	777.5	792.5	799.4
20°	742.0	750.2	767.9	787.1	795.3
22.5°	725.6	736.5	758.4	780.2	789.8
25°	709.2	720.1	744.7	769.3	780.2
27.5°	691.4	703.7	729.7	757.0	767.9
30°	672.3	683.2	711.9	740.6	752.9
32.5°	650.4	661.3	691.4	721.5	735.1
35°	625.8	639.5	668.2	699.6	713.3
37.5°	599.9	612.2	643.6	673.6	685.9
40°	572.5	584.8	614.9	646.3	658.6
42.5°	543.8	556.1	584.8	614.9	628.6
45°	513.8	523.3	553.4	582.1	593.0
47.5°	482.3	489.2	517.9	545.2	556.1
50°	448.2	455.0	482.3	506.9	517.9
52.5°	411.3	416.8	442.7	464.6	476.9
55°	374.4	379.9	403.1	422.2	430.4
57.5°	337.5	340.2	360.7	379.9	388.1
60°	303.3	303.3	319.7	334.8	345.7
62.5°	263.7	267.8	280.1	295.1	299.2
65°	235.0	230.9	243.2	254.2	259.6
67.5°	202.2	199.5	207.7	217.3	220.0
70°	172.2	168.1	174.9	180.4	183.1
72.5°	140.7	139.4	142.1	146.2	147.6
75°	114.8	110.7	112.0	113.4	116.1
77.5°	91.6	84.7	86.1	84.7	86.1
80°	67.0	61.5	61.5	60.1	58.8
82.5°	45.1	42.4	39.6	36.9	35.5
85°	27.3	23.2	20.5	17.8	17.8
87.5°	10.9	8.2	6.8	6.8	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)