

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: P296679

Luminaire Tested: **22RLN-LD5-31-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296679  
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-LD5-31-RDP-UNV-L92765-W2A1-U-5500K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2394.0 lumens  
Efficiency: N/A  
Efficacy: 95.3 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

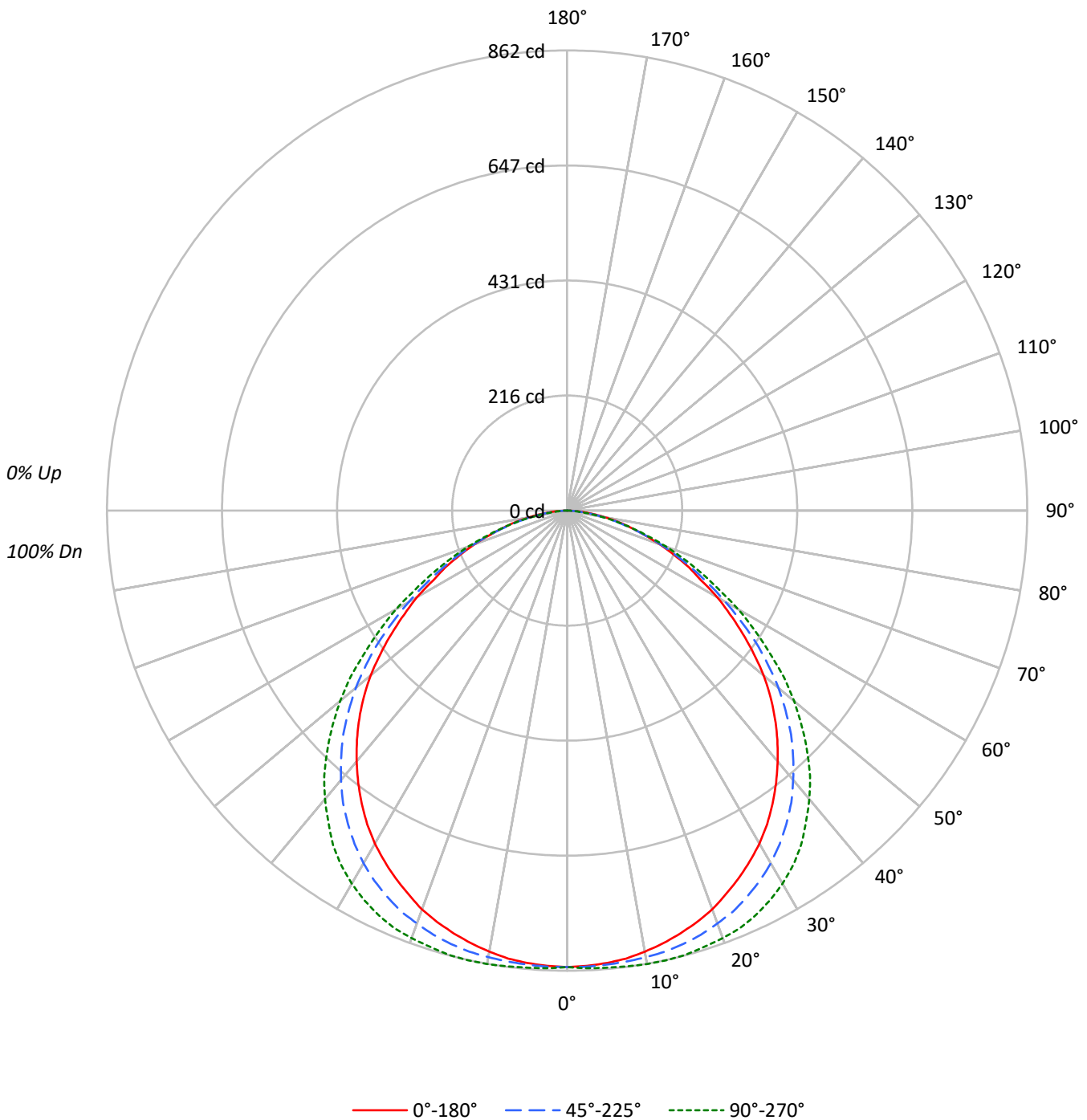
Input Watts (W): 25.11  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2301	2301	2301
5°	2298	2306	2322
10°	2293	2321	2357
15°	2284	2342	2399
20°	2277	2357	2440
25°	2257	2369	2483
30°	2238	2371	2507
35°	2203	2352	2511
40°	2155	2315	2479
45°	2095	2257	2418
50°	2011	2164	2323
55°	1882	2027	2164
60°	1750	1844	1994
65°	1604	1659	1771
70°	1452	1474	1544
75°	1279	1249	1294
80°	1113	1021	976
85°	905	679	587



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.4	3.4
10°-20°	237.4	9.9
20°-30°	367.9	15.4
30°-40°	447.7	18.7
40°-50°	456.0	19.0
50°-60°	384.6	16.1
60°-70°	260.1	10.9
70°-80°	130.0	5.4
80°-90°	28.9	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°	686.7	28.7
0°-40°	1134.4	47.4
0°-60°	1975.0	82.5
0°-90°	2394.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2394.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	855	855	855	855	855	
5°	851	852	854	858	860	81
15°	820	826	840	855	861	232
25°	760	772	798	824	836	350
35°	671	685	716	750	764	419
45°	551	561	593	624	636	424
55°	401	407	432	452	461	359
65°	252	248	261	272	278	249
75°	123	119	120	122	124	132
85°	29	25	22	19	19	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	855.1	855.1	855.1	855.1	855.1
2.5°	853.7	853.7	855.1	856.6	858.1
5°	850.8	852.2	853.7	858.1	859.5
7.5°	846.4	847.8	852.2	858.1	861.0
10°	839.0	842.0	849.3	858.1	862.5
12.5°	830.3	834.6	846.4	856.6	862.5
15°	820.0	825.9	840.5	855.1	861.0
17.5°	808.3	815.6	833.2	849.3	856.6
20°	795.1	803.9	822.9	843.4	852.2
22.5°	777.5	789.3	812.7	836.1	846.4
25°	760.0	771.7	798.0	824.4	836.1
27.5°	740.9	754.1	781.9	811.2	822.9
30°	720.4	732.1	762.9	793.6	806.8
32.5°	697.0	708.7	740.9	773.1	787.8
35°	670.6	685.3	716.0	749.7	764.4
37.5°	642.8	656.0	689.7	721.9	735.1
40°	613.5	626.7	658.9	692.6	705.8
42.5°	582.8	596.0	626.7	658.9	673.6
45°	550.6	560.8	593.0	623.8	635.5
47.5°	516.9	524.2	555.0	584.3	596.0
50°	480.3	487.6	516.9	543.3	555.0
52.5°	440.8	446.6	474.4	497.9	511.0
55°	401.2	407.1	432.0	452.5	461.3
57.5°	361.7	364.6	386.6	407.1	415.9
60°	325.1	325.1	342.6	358.8	370.5
62.5°	282.6	287.0	300.2	316.3	320.7
65°	251.9	247.5	260.6	272.4	278.2
67.5°	216.7	213.8	222.6	232.8	235.8
70°	184.5	180.1	187.4	193.3	196.2
72.5°	150.8	149.4	152.3	156.7	158.1
75°	123.0	118.6	120.1	121.5	124.5
77.5°	98.1	90.8	92.3	90.8	92.3
80°	71.8	65.9	65.9	64.4	63.0
82.5°	48.3	45.4	42.5	39.5	38.1
85°	29.3	24.9	22.0	19.0	19.0
87.5°	11.7	8.8	7.3	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)