

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: P296380

Luminaire Tested: **22RLN-LD5-25-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296380  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-11)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22RLN-LD5-25-UNV-L83050-W2A1-U-4000K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2588.0 lumens  
Efficiency: N/A  
Efficacy: 133.8 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.3  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

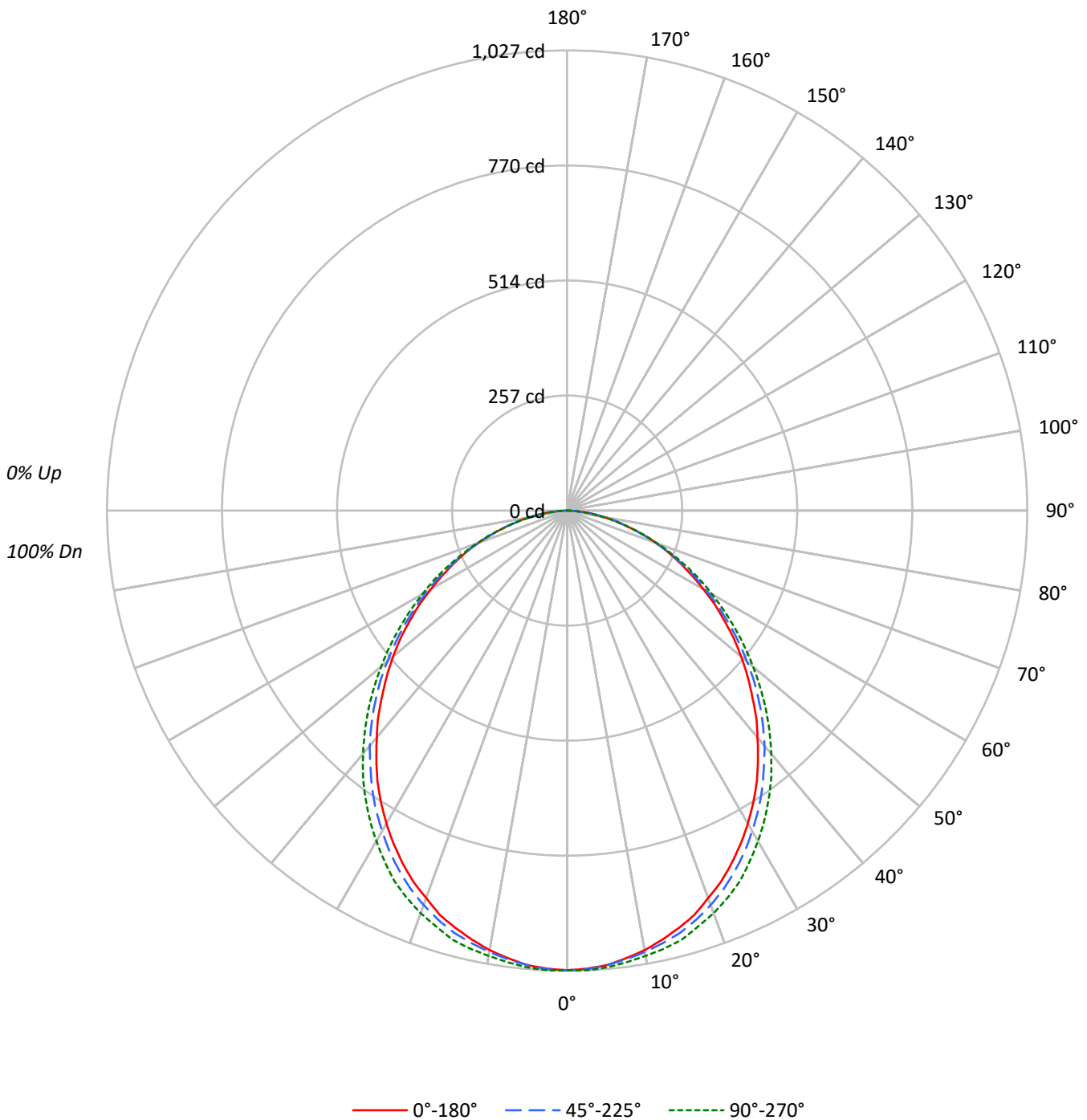
Input Watts (W): 19.344  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	99	95	98	95	92	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	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

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

	0°	45°	90°
0°	2760	2760	2760
5°	2750	2750	2764
10°	2722	2732	2757
15°	2685	2718	2761
20°	2635	2683	2738
25°	2578	2632	2709
30°	2506	2566	2646
35°	2425	2492	2577
40°	2321	2407	2488
45°	2219	2308	2387
50°	2123	2193	2269
55°	2010	2070	2143
60°	1889	1938	2007
65°	1775	1808	1865
70°	1655	1655	1685
75°	1475	1475	1475
80°	1300	1260	1260
85°	1034	997	917



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.7	3.7
10°-20°	275.0	10.6
20°-30°	408.6	15.8
30°-40°	474.2	18.3
40°-50°	466.9	18.0
50°-60°	395.1	15.3
60°-70°	281.8	10.9
70°-80°	151.4	5.9
80°-90°	38.2	1.5
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°	780.4	30.2
0°-40°	1254.6	48.5
0°-60°	2116.6	81.8
0°-90°	2588.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2588.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1026	1026	1026	1026	1026	
5°	1018	1018	1018	1022	1023	96
15°	964	966	976	984	991	272
25°	868	871	886	903	912	400
35°	738	739	759	777	784	461
45°	583	587	606	621	627	451
55°	428	430	441	453	457	384
65°	279	279	284	289	293	277
75°	142	141	142	142	142	152
85°	34	32	32	30	30	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1025.8	1025.8	1025.8	1025.8	1025.8
2.5°	1023.2	1023.2	1024.5	1025.8	1027.1
5°	1018.1	1018.1	1018.1	1022.0	1023.2
7.5°	1007.8	1009.1	1010.3	1014.2	1016.8
10°	996.1	997.4	1000.0	1006.5	1009.1
12.5°	980.7	984.5	988.4	997.4	1001.3
15°	963.9	966.5	975.5	984.5	991.0
17.5°	945.8	947.1	957.4	970.3	972.9
20°	920.0	923.9	936.8	949.7	956.1
22.5°	896.8	899.4	913.6	930.3	935.5
25°	868.4	871.0	886.5	903.2	912.3
27.5°	838.7	841.3	858.1	876.1	882.6
30°	806.5	809.0	825.8	845.2	851.6
32.5°	772.9	775.5	793.6	810.3	819.4
35°	738.1	739.4	758.7	776.8	784.5
37.5°	699.4	703.2	721.3	739.4	748.4
40°	660.7	664.5	685.2	701.9	708.4
42.5°	624.5	629.7	646.5	661.9	668.4
45°	583.2	587.1	606.5	620.7	627.1
47.5°	545.8	549.7	566.5	580.7	584.5
50°	507.1	509.7	523.9	536.8	541.9
52.5°	468.4	469.7	482.6	495.5	499.4
55°	428.4	429.7	441.3	452.9	456.8
57.5°	391.0	391.0	401.3	410.3	414.2
60°	351.0	351.0	360.0	369.0	372.9
62.5°	313.6	313.6	322.6	329.0	334.2
65°	278.7	278.7	283.9	289.0	292.9
67.5°	245.2	241.3	246.5	252.9	251.6
70°	210.3	206.5	210.3	212.9	214.2
72.5°	175.5	172.9	175.5	176.8	179.4
75°	141.9	140.6	141.9	141.9	141.9
77.5°	113.6	109.7	112.3	111.0	109.7
80°	83.9	82.6	81.3	80.0	81.3
82.5°	58.1	56.8	56.8	54.2	54.2
85°	33.5	32.3	32.3	29.7	29.7
87.5°	12.9	12.9	11.6	11.6	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)