

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: P295947

Luminaire Tested: **24RLN-LD5-80-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-80-UNV-L82765-W2A1-U-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8048.0 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

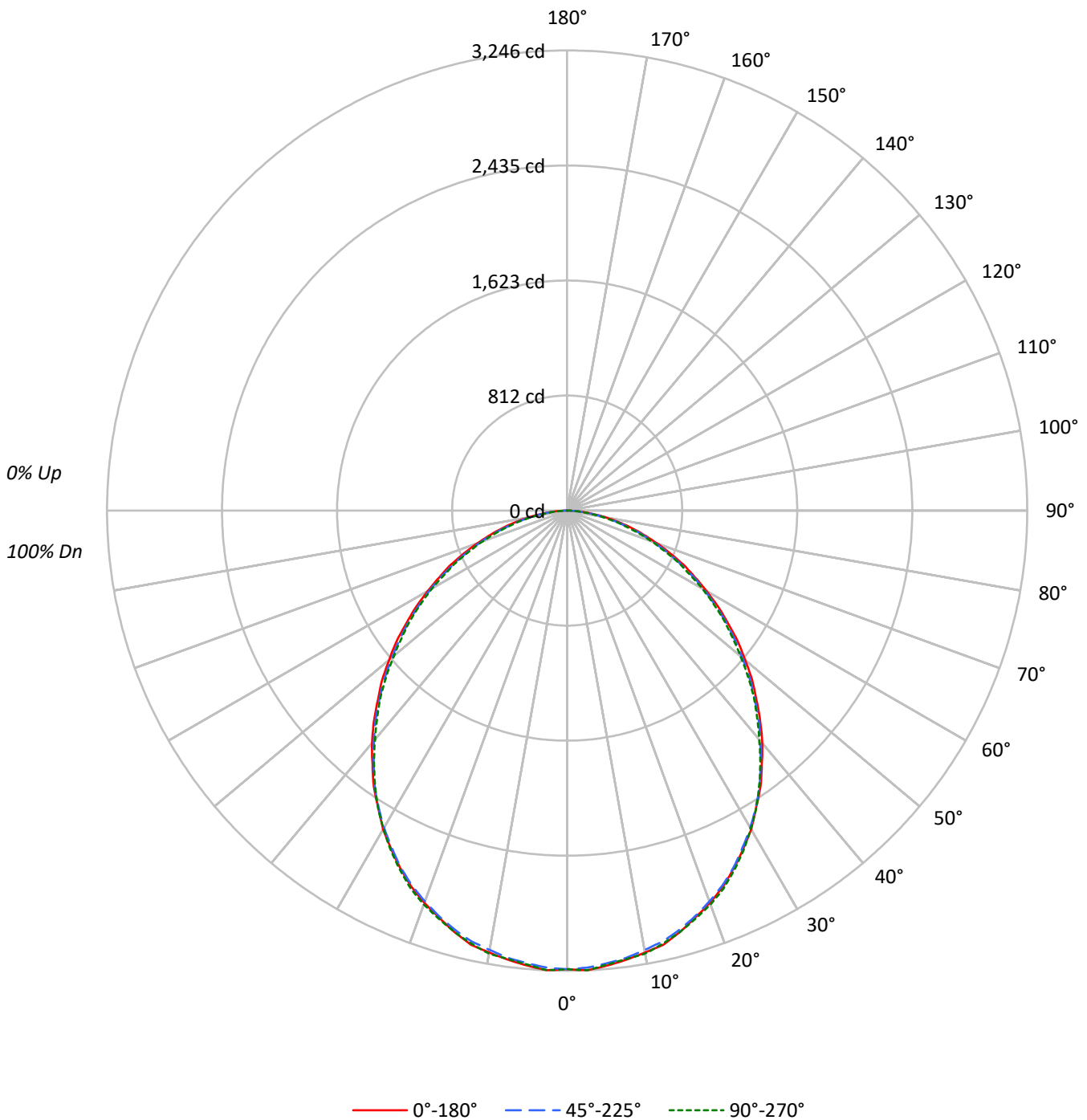
Input Watts (W): 61.473
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	72																												
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61																												
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52																												
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46																												
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40																												
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36																												
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32																												
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29																												
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4353	4353	4353
5°	4352	4331	4341
10°	4324	4299	4335
15°	4286	4264	4286
20°	4216	4201	4234
25°	4132	4124	4147
30°	4034	4014	4026
35°	3906	3889	3881
40°	3762	3726	3703
45°	3592	3557	3542
50°	3429	3375	3337
55°	3246	3198	3167
60°	3053	2997	2962
65°	2885	2777	2753
70°	2646	2543	2492
75°	2429	2281	2187
80°	2132	1991	1871
85°	1723	1604	1363



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.2	3.8
10°-20°	865.3	10.8
20°-30°	1280.0	15.9
30°-40°	1477.3	18.4
40°-50°	1442.8	17.9
50°-60°	1218.4	15.1
60°-70°	867.8	10.8
70°-80°	469.9	5.8
80°-90°	121.2	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°	2450.6	30.4
0°-40°	3927.9	48.8
0°-60°	6589.1	81.9
0°-90°	8048.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8048.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3235	3235	3235	3235	3235	
5°	3222	3222	3206	3214	3214	306
15°	3077	3064	3061	3074	3077	867
25°	2783	2768	2778	2788	2794	1281
35°	2378	2360	2368	2360	2363	1484
45°	1888	1872	1869	1862	1862	1460
55°	1384	1366	1363	1350	1350	1241
65°	906	888	872	862	865	893
75°	467	452	439	428	421	495
85°	112	109	104	91	88	131
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3235.1	3235.1	3235.1	3235.1	3235.1
2.5°	3245.5	3232.5	3227.3	3229.9	3245.5
5°	3222.1	3222.1	3206.5	3214.3	3214.3
7.5°	3196.1	3198.7	3183.1	3196.1	3190.9
10°	3165.0	3157.2	3146.8	3167.6	3172.8
12.5°	3136.4	3118.2	3113.0	3126.0	3128.6
15°	3076.7	3063.7	3061.1	3074.1	3076.7
17.5°	3009.2	3011.8	3001.4	3019.6	3017.0
20°	2944.3	2939.1	2933.9	2954.7	2957.3
22.5°	2871.6	2856.0	2861.2	2879.4	2884.6
25°	2783.3	2767.7	2778.1	2788.5	2793.7
27.5°	2689.8	2682.0	2679.4	2692.4	2697.6
30°	2596.4	2583.4	2583.4	2599.0	2591.2
32.5°	2482.1	2471.7	2476.9	2482.1	2484.7
35°	2378.3	2360.1	2367.9	2360.1	2362.7
37.5°	2256.2	2243.3	2240.7	2238.1	2238.1
40°	2142.0	2131.6	2121.2	2121.2	2108.2
42.5°	2017.4	2004.4	1999.2	1991.4	1983.6
45°	1887.6	1872.0	1869.4	1861.6	1861.6
47.5°	1770.7	1747.4	1744.8	1729.2	1729.2
50°	1638.3	1622.7	1612.3	1602.0	1594.2
52.5°	1518.9	1503.3	1487.7	1477.3	1469.5
55°	1383.9	1365.7	1363.1	1350.1	1350.1
57.5°	1261.8	1246.3	1235.9	1220.3	1222.9
60°	1134.6	1119.0	1113.8	1100.9	1100.9
62.5°	1015.2	1002.2	994.4	981.4	971.0
65°	906.1	888.0	872.4	862.0	864.6
67.5°	786.7	765.9	758.1	747.8	740.0
70°	672.5	659.5	646.5	633.5	633.5
72.5°	566.0	553.0	545.2	529.7	524.5
75°	467.3	451.8	438.8	428.4	420.6
77.5°	368.7	353.1	345.3	332.3	332.3
80°	275.2	264.8	257.0	251.8	241.5
82.5°	189.5	184.3	176.6	168.8	161.0
85°	111.6	109.0	103.9	90.9	88.3
87.5°	44.1	44.1	38.9	36.3	33.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)