

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: P295851

Luminaire Tested: **24RLN-LD5-67-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295851
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-LD5-67-UNV-L83050-W2A1-U-4500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7099.0 lumens
Efficiency: N/A
Efficacy: 139.0 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

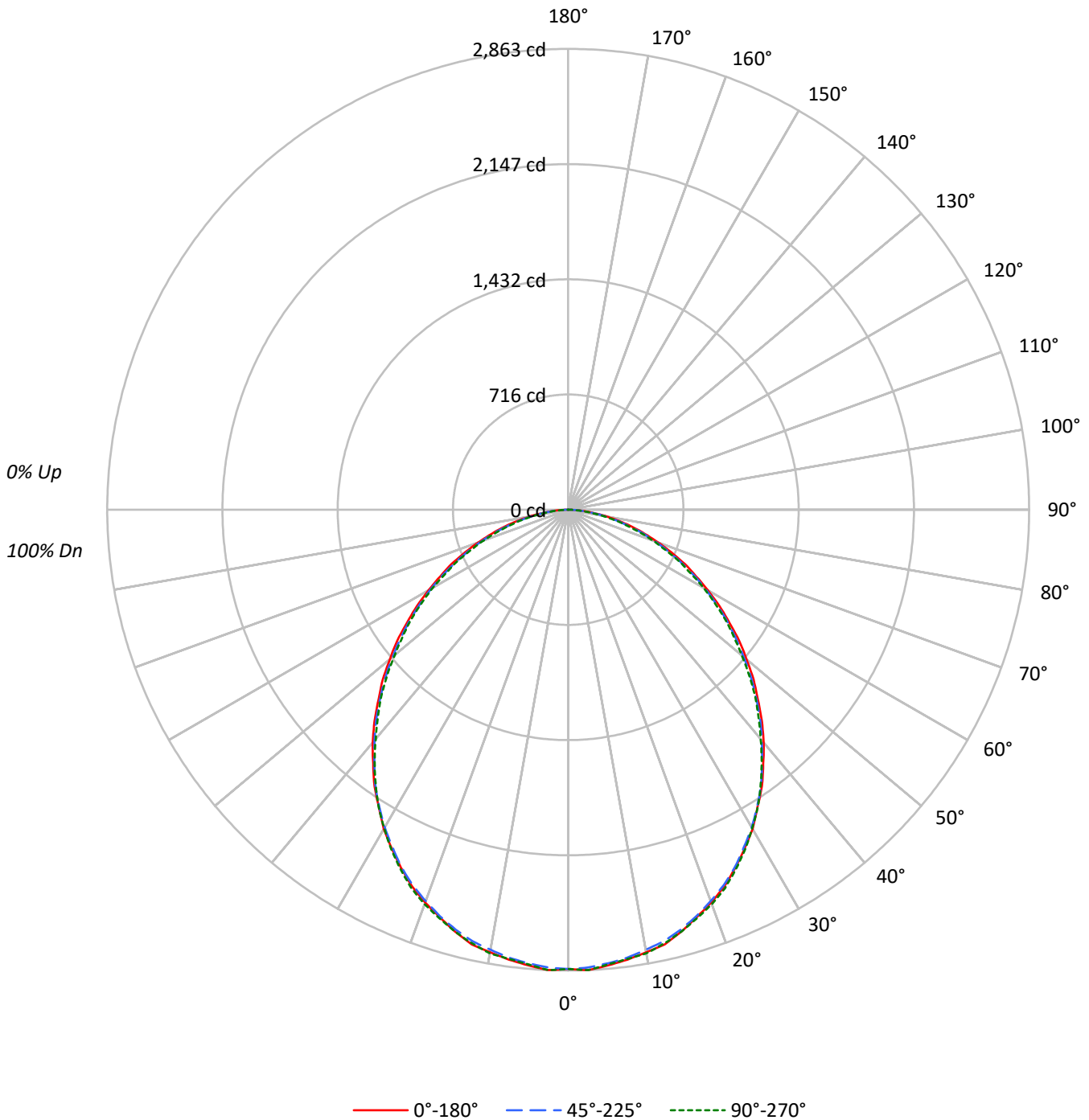
Input Watts (W): 51.057
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3839	3839	3839
5°	3839	3820	3829
10°	3814	3792	3824
15°	3780	3761	3780
20°	3719	3705	3735
25°	3645	3638	3658
30°	3558	3540	3551
35°	3446	3431	3423
40°	3319	3286	3266
45°	3168	3138	3125
50°	3025	2977	2943
55°	2864	2821	2794
60°	2693	2644	2613
65°	2545	2450	2428
70°	2334	2244	2198
75°	2143	2012	1929
80°	1881	1757	1650
85°	1521	1414	1203



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.3	3.8
10°-20°	763.3	10.8
20°-30°	1129.1	15.9
30°-40°	1303.1	18.4
40°-50°	1272.7	17.9
50°-60°	1074.7	15.1
60°-70°	765.5	10.8
70°-80°	414.5	5.8
80°-90°	106.9	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°	2161.6	30.4
0°-40°	3464.7	48.8
0°-60°	5812.1	81.9
0°-90°	7099.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7099.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2854	2854	2854	2854	2854	
5°	2842	2842	2828	2835	2835	270
15°	2714	2702	2700	2712	2714	764
25°	2455	2441	2450	2460	2464	1130
35°	2098	2082	2089	2082	2084	1309
45°	1665	1651	1649	1642	1642	1287
55°	1221	1205	1202	1191	1191	1094
65°	799	783	770	760	763	788
75°	412	398	387	378	371	436
85°	98	96	92	80	78	116
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2853.6	2853.6	2853.6	2853.6	2853.6
2.5°	2862.8	2851.3	2846.7	2849.0	2862.8
5°	2842.1	2842.1	2828.4	2835.3	2835.3
7.5°	2819.2	2821.5	2807.8	2819.2	2814.7
10°	2791.8	2784.9	2775.7	2794.1	2798.6
12.5°	2766.6	2750.5	2746.0	2757.4	2759.7
15°	2713.9	2702.4	2700.2	2711.6	2713.9
17.5°	2654.3	2656.6	2647.5	2663.5	2661.2
20°	2597.1	2592.5	2587.9	2606.3	2608.5
22.5°	2533.0	2519.2	2523.8	2539.8	2544.4
25°	2455.1	2441.4	2450.5	2459.7	2464.3
27.5°	2372.7	2365.8	2363.5	2374.9	2379.5
30°	2290.2	2278.8	2278.8	2292.5	2285.6
32.5°	2189.4	2180.3	2184.9	2189.4	2191.7
35°	2097.8	2081.8	2088.7	2081.8	2084.1
37.5°	1990.2	1978.7	1976.4	1974.2	1974.2
40°	1889.4	1880.3	1871.1	1871.1	1859.6
42.5°	1779.5	1768.0	1763.5	1756.6	1749.7
45°	1665.0	1651.2	1648.9	1642.1	1642.1
47.5°	1561.9	1541.3	1539.0	1525.3	1525.3
50°	1445.1	1431.4	1422.2	1413.1	1406.2
52.5°	1339.8	1326.0	1312.3	1303.1	1296.3
55°	1220.7	1204.6	1202.4	1190.9	1190.9
57.5°	1113.0	1099.3	1090.1	1076.4	1078.7
60°	1000.8	987.1	982.5	971.0	971.0
62.5°	895.5	884.0	877.1	865.7	856.5
65°	799.3	783.3	769.5	760.3	762.6
67.5°	693.9	675.6	668.7	659.6	652.7
70°	593.2	581.7	570.3	558.8	558.8
72.5°	499.3	487.8	480.9	467.2	462.6
75°	412.2	398.5	387.0	377.9	371.0
77.5°	325.2	311.5	304.6	293.1	293.1
80°	242.8	233.6	226.7	222.1	213.0
82.5°	167.2	162.6	155.7	148.9	142.0
85°	98.5	96.2	91.6	80.2	77.9
87.5°	38.9	38.9	34.4	32.1	29.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)