

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: P296372

Luminaire Tested: **24RLN-LD5-80-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296372
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-80-RDP-UNV-L92765-W2A1-U-6500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6345.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

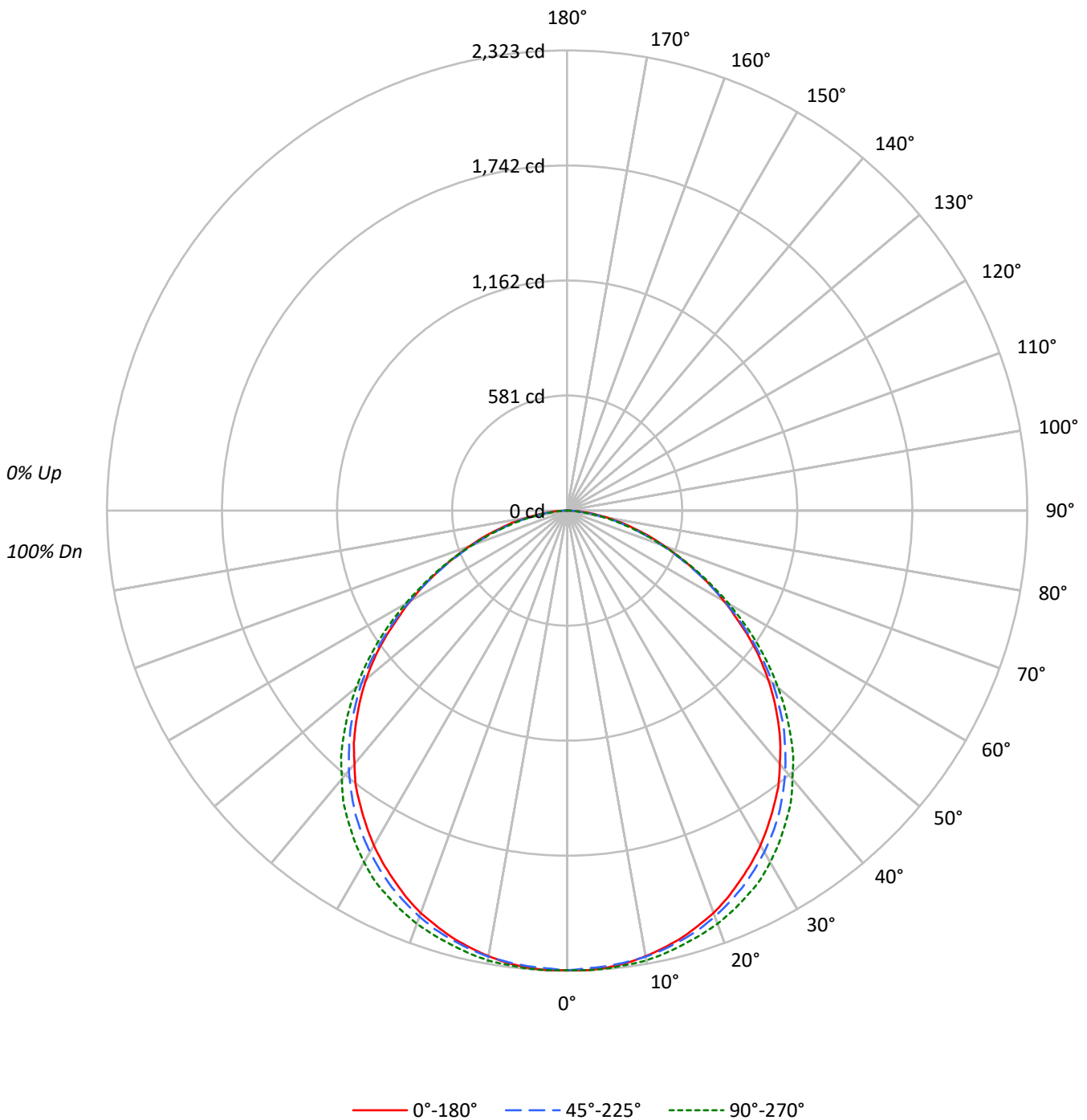
Input Watts (W): 63.612
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	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	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3122	3122	3122
5°	3128	3118	3134
10°	3121	3124	3150
15°	3111	3125	3158
20°	3095	3123	3178
25°	3062	3112	3188
30°	3033	3093	3186
35°	2989	3064	3159
40°	2934	3010	3107
45°	2867	2940	3032
50°	2771	2837	2912
55°	2637	2671	2750
60°	2461	2474	2539
65°	2261	2245	2299
70°	2055	1998	2007
75°	1827	1727	1714
80°	1585	1417	1380
85°	1300	1003	780



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.1	3.5
10°-20°	634.4	10.0
20°-30°	968.4	15.3
30°-40°	1167.4	18.4
40°-50°	1190.5	18.8
50°-60°	1018.9	16.1
60°-70°	701.8	11.1
70°-80°	359.8	5.7
80°-90°	83.7	1.3
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°	1822.8	28.7
0°-40°	2990.3	47.1
0°-60°	5199.6	81.9
0°-90°	6345.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6345.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2320	2320	2320	2320	2320	
5°	2316	2311	2308	2316	2320	220
15°	2234	2231	2243	2260	2267	630
25°	2063	2070	2096	2133	2147	951
35°	1820	1827	1866	1906	1923	1138
45°	1507	1509	1545	1584	1594	1161
55°	1124	1117	1138	1163	1172	1003
65°	710	693	705	710	722	706
75°	351	337	332	332	330	379
85°	84	75	65	58	50	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2320.4	2320.4	2320.4	2320.4	2320.4
2.5°	2322.8	2318.0	2313.2	2318.0	2322.8
5°	2315.6	2310.8	2308.4	2315.6	2320.4
7.5°	2303.5	2298.7	2298.7	2308.4	2313.2
10°	2284.3	2281.9	2286.7	2296.3	2305.9
12.5°	2260.2	2260.2	2267.4	2279.5	2289.1
15°	2233.7	2231.3	2243.4	2260.2	2267.4
17.5°	2197.6	2200.0	2216.9	2236.1	2245.8
20°	2161.5	2163.9	2180.8	2207.3	2219.3
22.5°	2115.8	2120.6	2139.9	2173.6	2185.6
25°	2062.8	2070.1	2096.5	2132.6	2147.1
27.5°	2009.9	2017.1	2046.0	2086.9	2106.2
30°	1952.1	1961.7	1990.6	2034.0	2050.8
32.5°	1887.1	1894.3	1930.4	1973.8	1990.6
35°	1819.7	1826.9	1865.5	1906.4	1923.2
37.5°	1752.3	1752.3	1790.8	1839.0	1855.8
40°	1670.5	1672.9	1713.8	1759.5	1769.2
42.5°	1593.5	1593.5	1629.6	1672.9	1689.7
45°	1506.8	1509.2	1545.3	1583.8	1593.5
47.5°	1417.7	1417.7	1449.0	1485.1	1494.8
50°	1323.9	1319.1	1355.2	1384.1	1391.3
52.5°	1227.6	1220.4	1249.3	1273.3	1283.0
55°	1124.1	1116.9	1138.5	1162.6	1172.2
57.5°	1015.8	1006.1	1030.2	1051.9	1056.7
60°	914.7	900.2	919.5	931.5	943.6
62.5°	813.6	796.7	811.2	818.4	828.0
65°	710.1	693.2	705.3	710.1	722.1
67.5°	611.4	599.4	601.8	609.0	613.8
70°	522.3	507.9	507.9	507.9	510.3
72.5°	440.5	418.8	416.4	418.8	418.8
75°	351.4	337.0	332.2	332.2	329.8
77.5°	281.6	262.4	260.0	255.1	250.3
80°	204.6	187.7	182.9	180.5	178.1
82.5°	142.0	127.6	122.8	117.9	110.7
85°	84.2	74.6	65.0	57.8	50.5
87.5°	31.3	28.9	24.1	21.7	21.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)