

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: P296218

Luminaire Tested: **24RLN-LD5-74-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296218
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-LD5-74-RDP-UNV-L82765-W2A1-U-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6153.0 lumens
Efficiency: N/A
Efficacy: 110.5 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

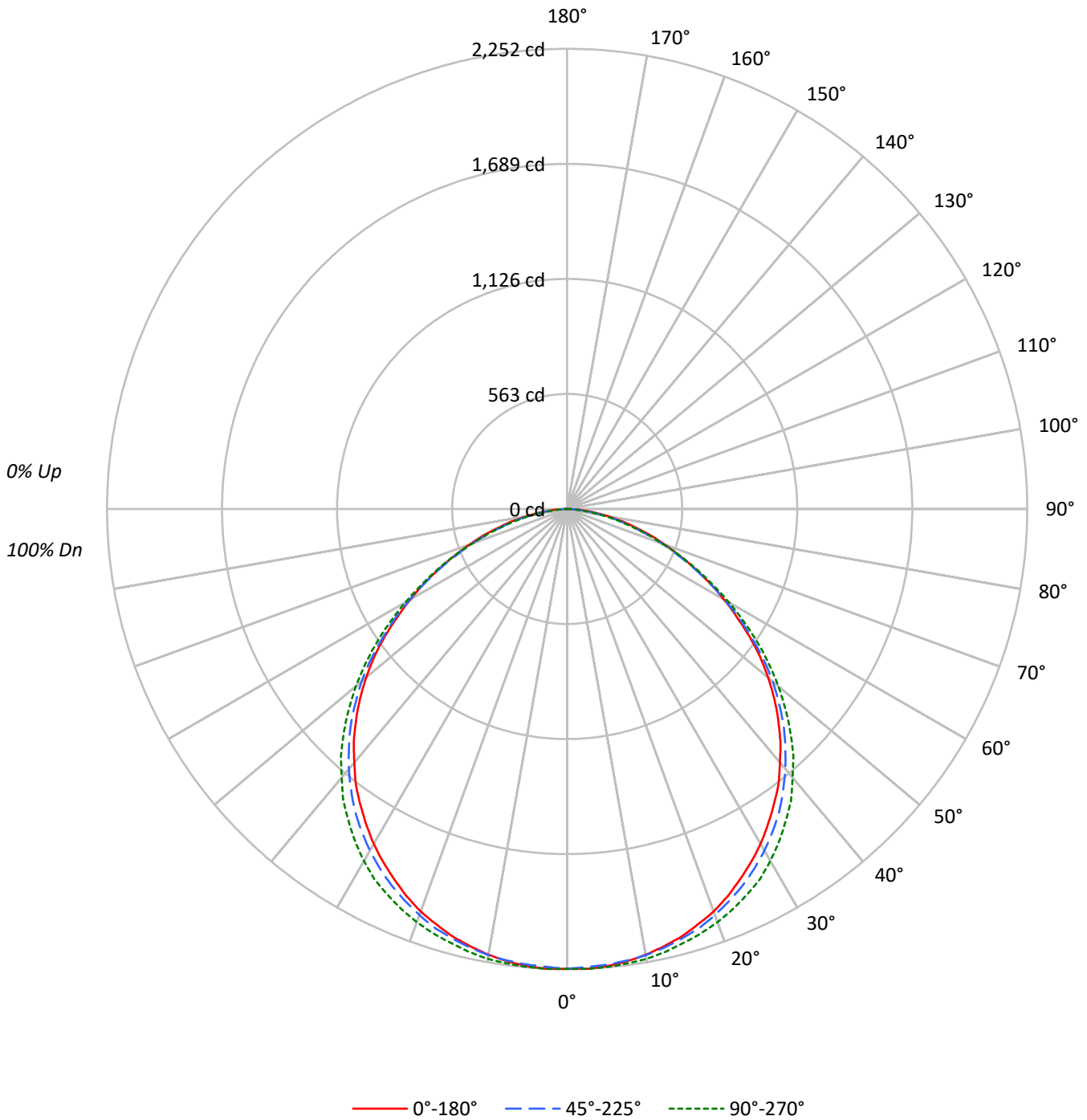
Input Watts (W): 55.707
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3028	3028	3028
5°	3033	3023	3039
10°	3027	3030	3055
15°	3017	3030	3063
20°	3001	3028	3081
25°	2970	3018	3091
30°	2941	2999	3090
35°	2899	2971	3063
40°	2845	2919	3013
45°	2780	2852	2940
50°	2687	2751	2824
55°	2557	2590	2667
60°	2387	2400	2462
65°	2192	2177	2230
70°	1993	1937	1947
75°	1772	1674	1663
80°	1537	1375	1338
85°	1261	973	756



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.4	3.5
10°-20°	615.2	10.0
20°-30°	939.1	15.3
30°-40°	1132.1	18.4
40°-50°	1154.5	18.8
50°-60°	988.0	16.1
60°-70°	680.6	11.1
70°-80°	348.9	5.7
80°-90°	81.2	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°	1767.7	28.7
0°-40°	2899.8	47.1
0°-60°	5042.3	81.9
0°-90°	6153.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6153.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2250	2250	2250	2250	2250	
5°	2246	2241	2238	2246	2250	213
15°	2166	2164	2176	2192	2199	611
25°	2000	2007	2033	2068	2082	922
35°	1765	1772	1809	1849	1865	1104
45°	1461	1464	1499	1536	1545	1126
55°	1090	1083	1104	1127	1137	972
65°	689	672	684	689	700	684
75°	341	327	322	322	320	367
85°	82	72	63	56	49	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2250.2	2250.2	2250.2	2250.2	2250.2
2.5°	2252.5	2247.8	2243.2	2247.8	2252.5
5°	2245.5	2240.8	2238.5	2245.5	2250.2
7.5°	2233.8	2229.2	2229.2	2238.5	2243.2
10°	2215.2	2212.8	2217.5	2226.8	2236.2
12.5°	2191.8	2191.8	2198.8	2210.5	2219.8
15°	2166.1	2163.8	2175.5	2191.8	2198.8
17.5°	2131.1	2133.5	2149.8	2168.5	2177.8
20°	2096.1	2098.5	2114.8	2140.5	2152.1
22.5°	2051.8	2056.4	2075.1	2107.8	2119.5
25°	2000.4	2007.4	2033.1	2068.1	2082.1
27.5°	1949.1	1956.1	1984.1	2023.8	2042.4
30°	1893.0	1902.4	1930.4	1972.4	1988.7
32.5°	1830.0	1837.0	1872.0	1914.0	1930.4
35°	1764.7	1771.7	1809.0	1848.7	1865.0
37.5°	1699.3	1699.3	1736.6	1783.3	1799.7
40°	1619.9	1622.3	1662.0	1706.3	1715.6
42.5°	1545.2	1545.2	1580.3	1622.3	1638.6
45°	1461.2	1463.5	1498.6	1535.9	1545.2
47.5°	1374.8	1374.8	1405.2	1440.2	1449.5
50°	1283.8	1279.1	1314.2	1342.2	1349.2
52.5°	1190.4	1183.4	1211.5	1234.8	1244.1
55°	1090.1	1083.1	1104.1	1127.4	1136.8
57.5°	985.0	975.7	999.0	1020.0	1024.7
60°	887.0	873.0	891.7	903.3	915.0
62.5°	789.0	772.6	786.6	793.6	803.0
65°	688.6	672.3	683.9	688.6	700.3
67.5°	592.9	581.2	583.6	590.6	595.2
70°	506.5	492.5	492.5	492.5	494.9
72.5°	427.2	406.2	403.8	406.2	406.2
75°	340.8	326.8	322.1	322.1	319.8
77.5°	273.1	254.4	252.1	247.4	242.8
80°	198.4	182.1	177.4	175.1	172.7
82.5°	137.7	123.7	119.0	114.4	107.4
85°	81.7	72.4	63.0	56.0	49.0
87.5°	30.3	28.0	23.3	21.0	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)