

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: P296134

Luminaire Tested: **24RLN-LD5-74-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296134
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-L83050-W2A1-U-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6164.0 lumens
Efficiency: N/A
Efficacy: 112.0 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

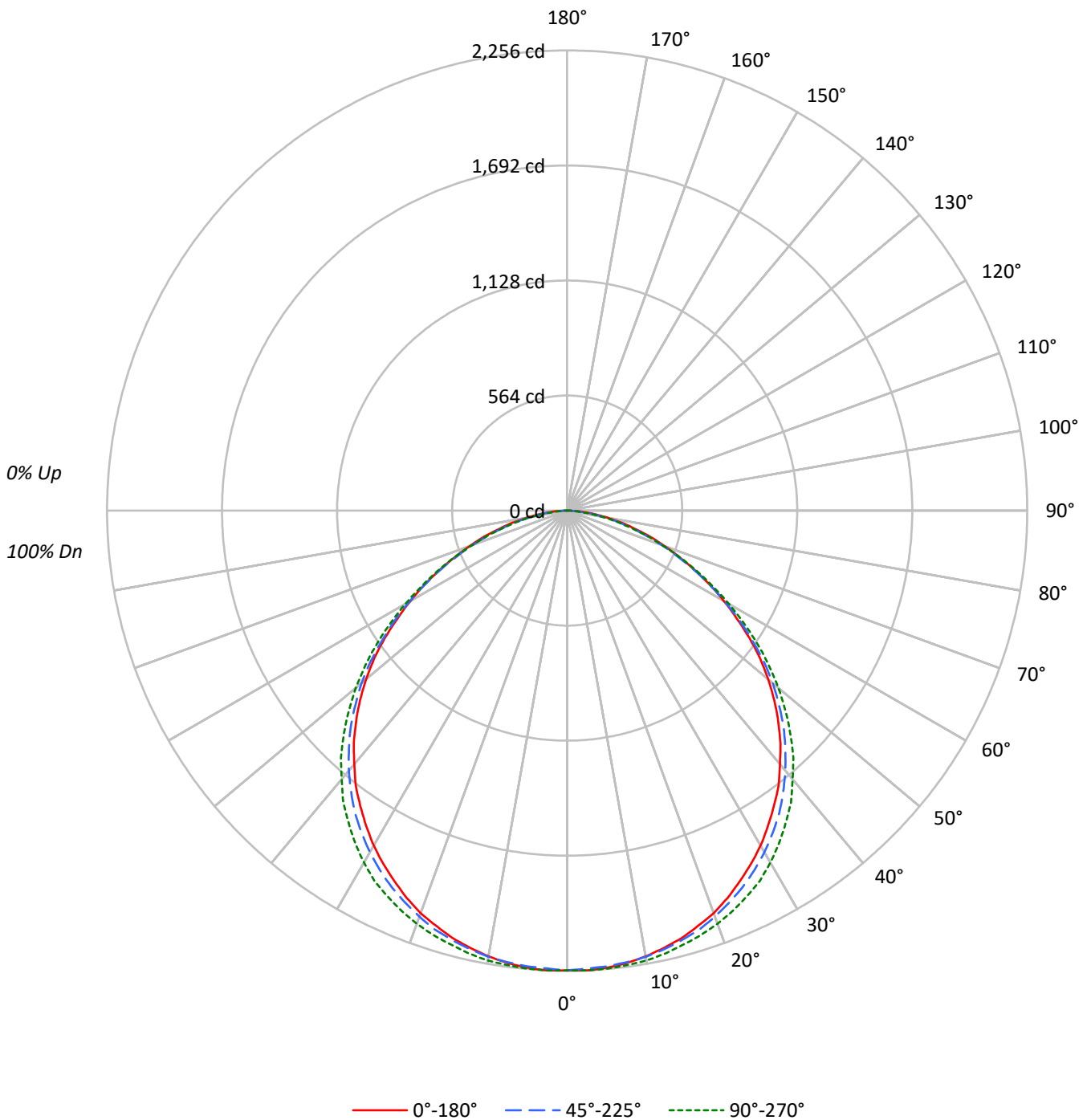
Input Watts (W): 55.056
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3033	3033	3033
5°	3038	3029	3045
10°	3032	3035	3061
15°	3023	3036	3068
20°	3007	3033	3087
25°	2975	3024	3097
30°	2946	3004	3095
35°	2904	2977	3069
40°	2850	2924	3019
45°	2785	2856	2946
50°	2692	2756	2829
55°	2562	2595	2671
60°	2391	2404	2467
65°	2196	2181	2233
70°	1996	1941	1950
75°	1775	1678	1666
80°	1540	1377	1340
85°	1263	974	758



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.8	3.5
10°-20°	616.3	10.0
20°-30°	940.7	15.3
30°-40°	1134.1	18.4
40°-50°	1156.6	18.8
50°-60°	989.8	16.1
60°-70°	681.8	11.1
70°-80°	349.5	5.7
80°-90°	81.4	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°	1770.8	28.7
0°-40°	2905.0	47.1
0°-60°	5051.3	81.9
0°-90°	6164.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6164.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2254	2254	2254	2254	2254	
5°	2250	2245	2242	2250	2254	214
15°	2170	2168	2179	2196	2203	612
25°	2004	2011	2037	2072	2086	924
35°	1768	1775	1812	1852	1868	1106
45°	1464	1466	1501	1539	1548	1128
55°	1092	1085	1106	1129	1139	974
65°	690	674	685	690	702	685
75°	341	327	323	323	320	368
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°	2254.2	2254.2	2254.2	2254.2	2254.2
2.5°	2256.5	2251.9	2247.2	2251.9	2256.5
5°	2249.5	2244.8	2242.5	2249.5	2254.2
7.5°	2237.8	2233.2	2233.2	2242.5	2247.2
10°	2219.1	2216.8	2221.5	2230.8	2240.2
12.5°	2195.7	2195.7	2202.8	2214.4	2223.8
15°	2170.0	2167.7	2179.4	2195.7	2202.8
17.5°	2134.9	2137.3	2153.6	2172.4	2181.7
20°	2099.9	2102.2	2118.6	2144.3	2156.0
22.5°	2055.4	2060.1	2078.8	2111.6	2123.2
25°	2004.0	2011.0	2036.7	2071.8	2085.8
27.5°	1952.5	1959.6	1987.6	2027.4	2046.1
30°	1896.4	1905.8	1933.8	1975.9	1992.3
32.5°	1833.3	1840.3	1875.4	1917.5	1933.8
35°	1767.8	1774.8	1812.2	1852.0	1868.4
37.5°	1702.3	1702.3	1739.8	1786.5	1802.9
40°	1622.8	1625.2	1664.9	1709.4	1718.7
42.5°	1548.0	1548.0	1583.1	1625.2	1641.5
45°	1463.8	1466.2	1501.2	1538.7	1548.0
47.5°	1377.3	1377.3	1407.7	1442.8	1452.1
50°	1286.1	1281.4	1316.5	1344.6	1351.6
52.5°	1192.6	1185.6	1213.6	1237.0	1246.4
55°	1092.0	1085.0	1106.1	1129.4	1138.8
57.5°	986.8	977.4	1000.8	1021.9	1026.5
60°	888.6	874.6	893.3	905.0	916.6
62.5°	790.4	774.0	788.0	795.0	804.4
65°	689.8	673.5	685.1	689.8	701.5
67.5°	593.9	582.3	584.6	591.6	596.3
70°	507.4	493.4	493.4	493.4	495.7
72.5°	427.9	406.9	404.5	406.9	406.9
75°	341.4	327.4	322.7	322.7	320.4
77.5°	273.6	254.9	252.5	247.9	243.2
80°	198.8	182.4	177.7	175.4	173.0
82.5°	138.0	123.9	119.3	114.6	107.6
85°	81.8	72.5	63.1	56.1	49.1
87.5°	30.4	28.1	23.4	21.0	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)