

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: P296280

Luminaire Tested: **24RLN-LD5-80-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296280
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-L93050-W2A1-U-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6138.0 lumens
Efficiency: N/A
Efficacy: 98.5 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

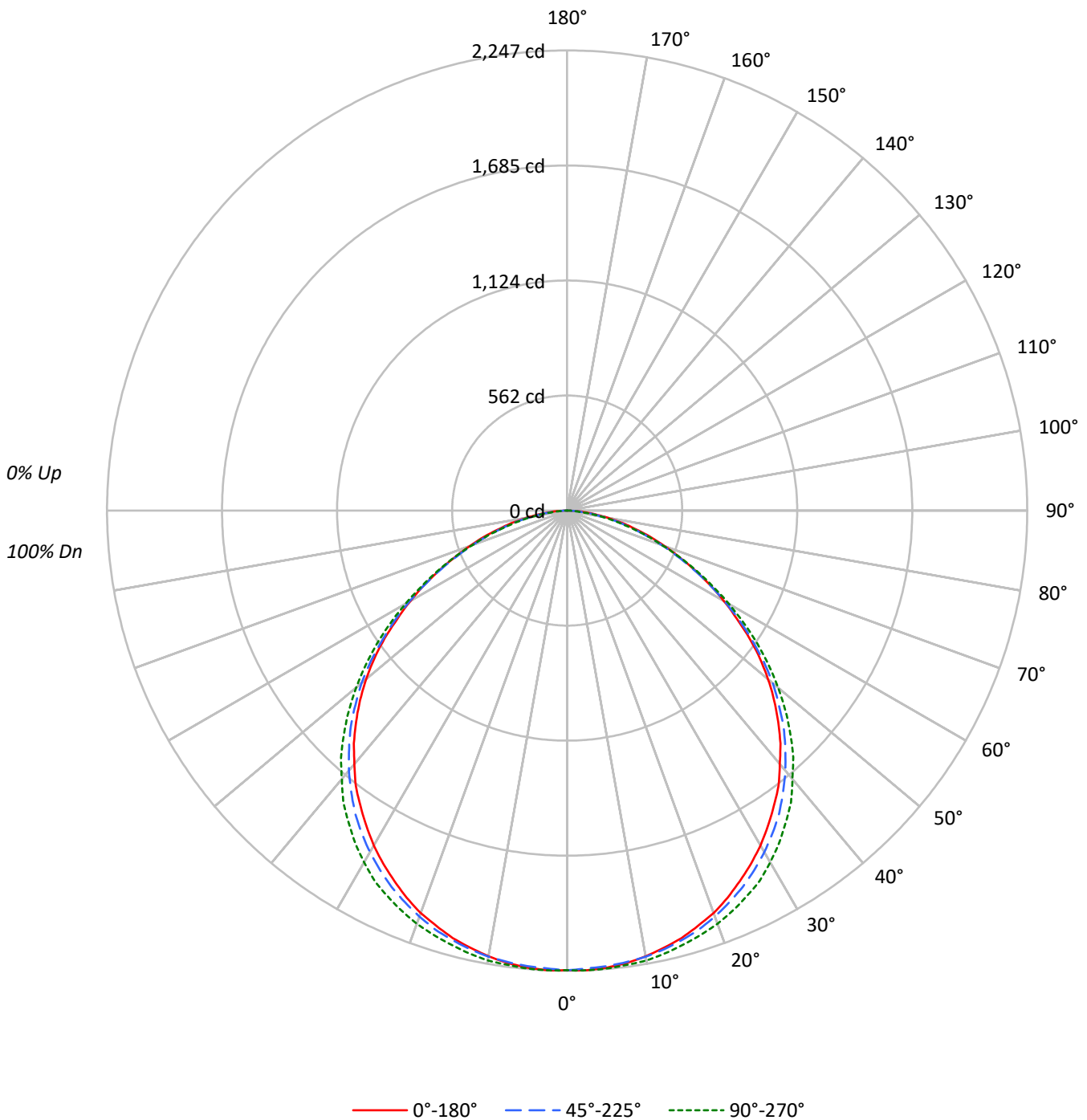
Input Watts (W): 62.31
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3020	3020	3020
5°	3025	3016	3032
10°	3019	3022	3048
15°	3010	3023	3055
20°	2994	3021	3074
25°	2962	3011	3083
30°	2934	2992	3082
35°	2892	2964	3056
40°	2838	2912	3006
45°	2774	2845	2933
50°	2681	2744	2817
55°	2551	2584	2660
60°	2381	2394	2456
65°	2187	2172	2224
70°	1988	1933	1942
75°	1768	1670	1658
80°	1533	1371	1335
85°	1258	971	755



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.9	3.5
10°-20°	613.7	10.0
20°-30°	936.8	15.3
30°-40°	1129.3	18.4
40°-50°	1151.7	18.8
50°-60°	985.6	16.1
60°-70°	678.9	11.1
70°-80°	348.0	5.7
80°-90°	81.0	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°	1763.4	28.7
0°-40°	2892.7	47.1
0°-60°	5030.0	81.9
0°-90°	6138.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6138.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2245	2245	2245	2245	2245	
5°	2240	2235	2233	2240	2245	213
15°	2161	2158	2170	2186	2194	609
25°	1996	2002	2028	2063	2077	920
35°	1760	1767	1805	1844	1860	1101
45°	1458	1460	1495	1532	1542	1123
55°	1087	1080	1101	1125	1134	970
65°	687	671	682	687	699	683
75°	340	326	321	321	319	366
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°	2244.7	2244.7	2244.7	2244.7	2244.7
2.5°	2247.0	2242.4	2237.7	2242.4	2247.0
5°	2240.0	2235.4	2233.0	2240.0	2244.7
7.5°	2228.4	2223.7	2223.7	2233.0	2237.7
10°	2209.8	2207.4	2212.1	2221.4	2230.7
12.5°	2186.5	2186.5	2193.5	2205.1	2214.4
15°	2160.9	2158.5	2170.2	2186.5	2193.5
17.5°	2125.9	2128.3	2144.6	2163.2	2172.5
20°	2091.0	2093.3	2109.6	2135.2	2146.9
22.5°	2046.8	2051.4	2070.1	2102.7	2114.3
25°	1995.5	2002.5	2028.1	2063.1	2077.0
27.5°	1944.3	1951.3	1979.2	2018.8	2037.5
30°	1888.4	1897.7	1925.7	1967.6	1983.9
32.5°	1825.6	1832.5	1867.5	1909.4	1925.7
35°	1760.4	1767.3	1804.6	1844.2	1860.5
37.5°	1695.2	1695.2	1732.4	1779.0	1795.3
40°	1616.0	1618.3	1657.9	1702.1	1711.5
42.5°	1541.5	1541.5	1576.4	1618.3	1634.6
45°	1457.7	1460.0	1494.9	1532.2	1541.5
47.5°	1371.5	1371.5	1401.8	1436.7	1446.0
50°	1280.7	1276.0	1311.0	1338.9	1345.9
52.5°	1187.5	1180.6	1208.5	1231.8	1241.1
55°	1087.4	1080.4	1101.4	1124.7	1134.0
57.5°	982.6	973.3	996.6	1017.6	1022.2
60°	884.8	870.9	889.5	901.1	912.8
62.5°	787.0	770.7	784.7	791.7	801.0
65°	686.9	670.6	682.3	686.9	698.6
67.5°	591.4	579.8	582.1	589.1	593.8
70°	505.3	491.3	491.3	491.3	493.6
72.5°	426.1	405.2	402.8	405.2	405.2
75°	340.0	326.0	321.3	321.3	319.0
77.5°	272.4	253.8	251.5	246.8	242.2
80°	197.9	181.6	177.0	174.6	172.3
82.5°	137.4	123.4	118.8	114.1	107.1
85°	81.5	72.2	62.9	55.9	48.9
87.5°	30.3	27.9	23.3	21.0	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)