

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: P295843

Luminaire Tested: **24RLN-LD5-60-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295843
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-LD5-60-UNV-L83050-W2A1-U-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5693.0 lumens
Efficiency: N/A
Efficacy: 131.9 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

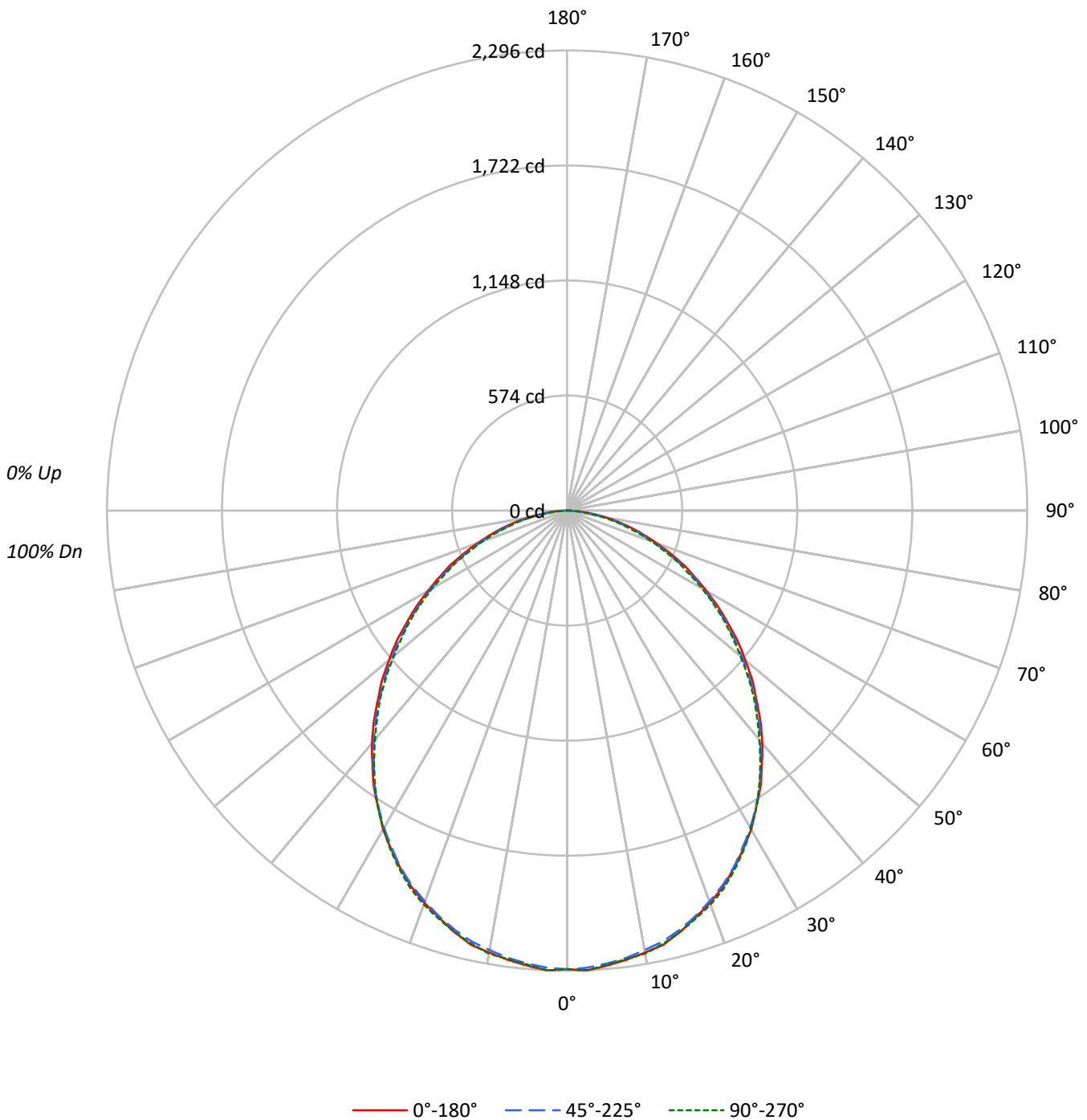
Input Watts (W): 43.152
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3079	3079	3079
5°	3078	3063	3071
10°	3059	3041	3066
15°	3032	3016	3032
20°	2982	2972	2995
25°	2923	2918	2934
30°	2853	2839	2848
35°	2763	2751	2745
40°	2661	2635	2619
45°	2541	2516	2506
50°	2426	2387	2361
55°	2296	2262	2240
60°	2160	2120	2095
65°	2041	1965	1947
70°	1871	1799	1763
75°	1719	1614	1547
80°	1509	1409	1323
85°	1220	1135	963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.9	3.8
10°-20°	612.1	10.8
20°-30°	905.5	15.9
30°-40°	1045.0	18.4
40°-50°	1020.6	17.9
50°-60°	861.8	15.1
60°-70°	613.9	10.8
70°-80°	332.4	5.8
80°-90°	85.8	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°	1733.5	30.4
0°-40°	2778.5	48.8
0°-60°	4661.0	81.9
0°-90°	5693.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5693.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2288	2288	2288	2288	2288	
5°	2279	2279	2268	2274	2274	216
15°	2176	2167	2165	2175	2176	613
25°	1969	1958	1965	1972	1976	906
35°	1682	1670	1675	1670	1671	1050
45°	1335	1324	1322	1317	1317	1032
55°	979	966	964	955	955	878
65°	641	628	617	610	612	632
75°	331	320	310	303	298	350
85°	79	77	74	64	62	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2288.4	2288.4	2288.4	2288.4	2288.4
2.5°	2295.8	2286.6	2282.9	2284.8	2295.8
5°	2279.2	2279.2	2268.2	2273.7	2273.7
7.5°	2260.9	2262.7	2251.7	2260.9	2257.2
10°	2238.8	2233.3	2226.0	2240.7	2244.3
12.5°	2218.6	2205.8	2202.1	2211.3	2213.1
15°	2176.4	2167.2	2165.4	2174.6	2176.4
17.5°	2128.6	2130.5	2123.1	2136.0	2134.1
20°	2082.7	2079.0	2075.4	2090.1	2091.9
22.5°	2031.3	2020.3	2024.0	2036.8	2040.5
25°	1968.9	1957.8	1965.2	1972.5	1976.2
27.5°	1902.7	1897.2	1895.4	1904.6	1908.2
30°	1836.6	1827.4	1827.4	1838.5	1832.9
32.5°	1755.8	1748.5	1752.1	1755.8	1757.6
35°	1682.3	1669.5	1675.0	1669.5	1671.3
37.5°	1596.0	1586.8	1585.0	1583.2	1583.2
40°	1515.2	1507.9	1500.5	1500.5	1491.3
42.5°	1427.1	1417.9	1414.2	1408.7	1403.2
45°	1335.2	1324.2	1322.4	1316.9	1316.9
47.5°	1252.6	1236.0	1234.2	1223.2	1223.2
50°	1158.9	1147.9	1140.5	1133.2	1127.7
52.5°	1074.4	1063.4	1052.4	1045.0	1039.5
55°	978.9	966.1	964.2	955.0	955.0
57.5°	892.6	881.6	874.2	863.2	865.0
60°	802.6	791.6	787.9	778.7	778.7
62.5°	718.1	708.9	703.4	694.2	686.9
65°	641.0	628.1	617.1	609.8	611.6
67.5°	556.5	541.8	536.3	528.9	523.4
70°	475.7	466.5	457.3	448.1	448.1
72.5°	400.4	391.2	385.7	374.7	371.0
75°	330.6	319.6	310.4	303.0	297.5
77.5°	260.8	249.8	244.3	235.1	235.1
80°	194.7	187.3	181.8	178.2	170.8
82.5°	134.1	130.4	124.9	119.4	113.9
85°	79.0	77.1	73.5	64.3	62.4
87.5°	31.2	31.2	27.5	25.7	23.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)