

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: P295918

Luminaire Tested: **24RLN-LD5-60-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295918
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-L82765-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: 5687.0 lumens
Efficiency: N/A
Efficacy: 132.4 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

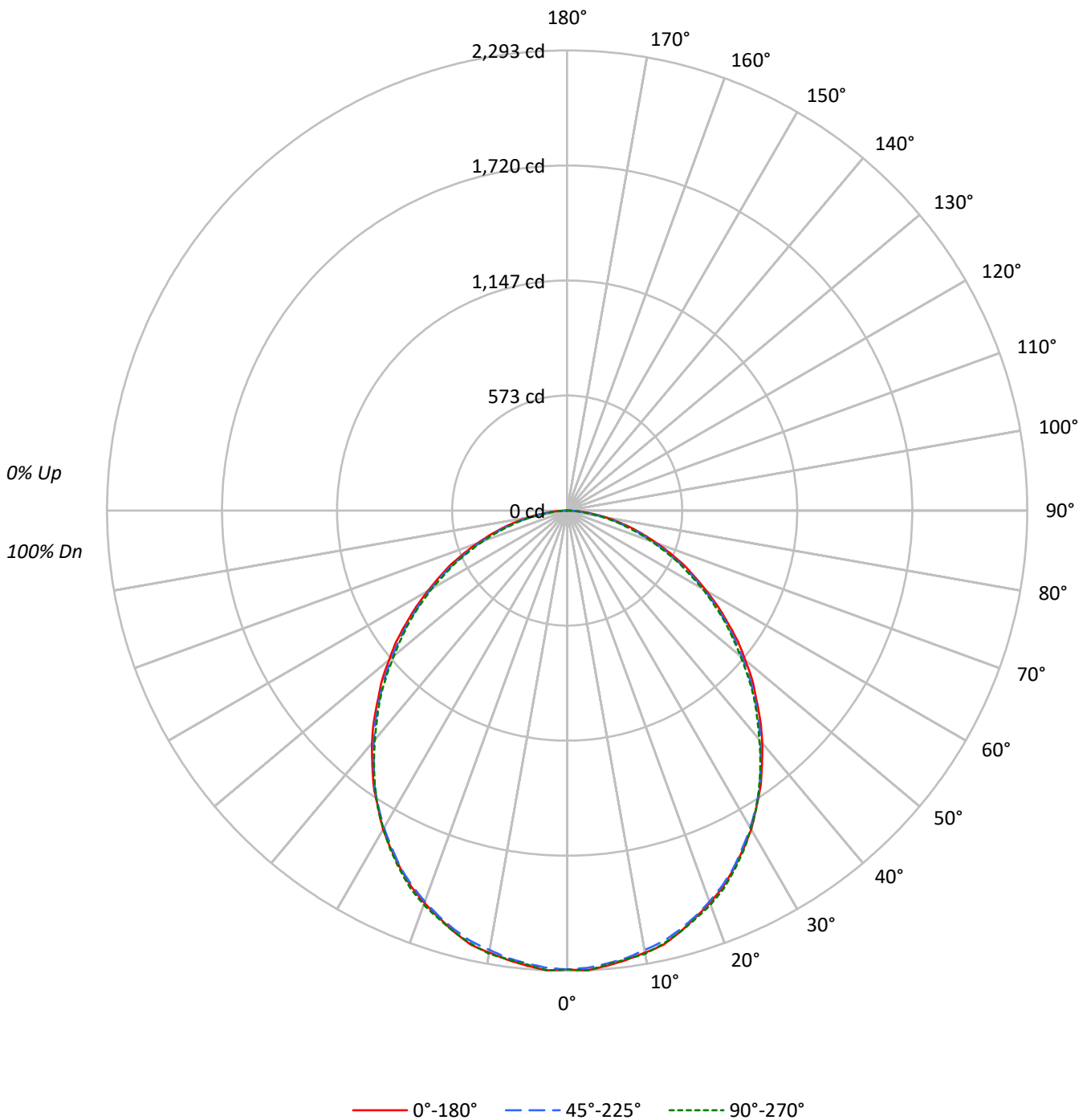
Input Watts (W): 42.966
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3076	3076	3076
5°	3075	3060	3068
10°	3056	3038	3063
15°	3028	3013	3028
20°	2979	2968	2992
25°	2920	2914	2931
30°	2850	2836	2845
35°	2760	2748	2742
40°	2659	2633	2617
45°	2538	2514	2503
50°	2423	2385	2358
55°	2294	2259	2238
60°	2158	2118	2093
65°	2039	1963	1945
70°	1869	1797	1761
75°	1717	1612	1545
80°	1507	1407	1322
85°	1218	1133	963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.7	3.8
10°-20°	611.5	10.8
20°-30°	904.5	15.9
30°-40°	1043.9	18.4
40°-50°	1019.6	17.9
50°-60°	860.9	15.1
60°-70°	613.2	10.8
70°-80°	332.0	5.8
80°-90°	85.7	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°	1731.7	30.4
0°-40°	2775.6	48.8
0°-60°	4656.0	81.9
0°-90°	5687.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5687.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2286	2286	2286	2286	2286	
5°	2277	2277	2266	2271	2271	216
15°	2174	2165	2163	2172	2174	612
25°	1967	1956	1963	1970	1974	905
35°	1681	1668	1673	1668	1670	1049
45°	1334	1323	1321	1316	1316	1031
55°	978	965	963	954	954	877
65°	640	628	616	609	611	631
75°	330	319	310	303	297	349
85°	79	77	73	64	62	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2286.0	2286.0	2286.0	2286.0	2286.0
2.5°	2293.4	2284.2	2280.5	2282.3	2293.4
5°	2276.8	2276.8	2265.8	2271.3	2271.3
7.5°	2258.5	2260.3	2249.3	2258.5	2254.8
10°	2236.5	2231.0	2223.6	2238.3	2242.0
12.5°	2216.3	2203.5	2199.8	2209.0	2210.8
15°	2174.1	2164.9	2163.1	2172.3	2174.1
17.5°	2126.4	2128.2	2120.9	2133.7	2131.9
20°	2080.5	2076.9	2073.2	2087.9	2089.7
22.5°	2029.2	2018.1	2021.8	2034.7	2038.3
25°	1966.8	1955.8	1963.1	1970.4	1974.1
27.5°	1900.7	1895.2	1893.4	1902.6	1906.2
30°	1834.7	1825.5	1825.5	1836.5	1831.0
32.5°	1754.0	1746.6	1750.3	1754.0	1755.8
35°	1680.6	1667.7	1673.2	1667.7	1669.6
37.5°	1594.3	1585.2	1583.3	1581.5	1581.5
40°	1513.6	1506.3	1498.9	1498.9	1489.8
42.5°	1425.5	1416.4	1412.7	1407.2	1401.7
45°	1333.8	1322.8	1321.0	1315.5	1315.5
47.5°	1251.3	1234.7	1232.9	1221.9	1221.9
50°	1157.7	1146.7	1139.3	1132.0	1126.5
52.5°	1073.3	1062.3	1051.3	1043.9	1038.4
55°	977.9	965.0	963.2	954.0	954.0
57.5°	891.7	880.6	873.3	862.3	864.1
60°	801.8	790.7	787.1	777.9	777.9
62.5°	717.4	708.2	702.7	693.5	686.2
65°	640.3	627.5	616.5	609.1	610.9
67.5°	555.9	541.2	535.7	528.4	522.9
70°	475.2	466.0	456.8	447.7	447.7
72.5°	400.0	390.8	385.3	374.3	370.6
75°	330.2	319.2	310.1	302.7	297.2
77.5°	260.5	249.5	244.0	234.8	234.8
80°	194.5	187.1	181.6	178.0	170.6
82.5°	133.9	130.3	124.8	119.3	113.8
85°	78.9	77.1	73.4	64.2	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)