

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: P293631

Luminaire Tested: **24GR-LD5-56-A-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293631
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-56-A-UNV-L92765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4878.0 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

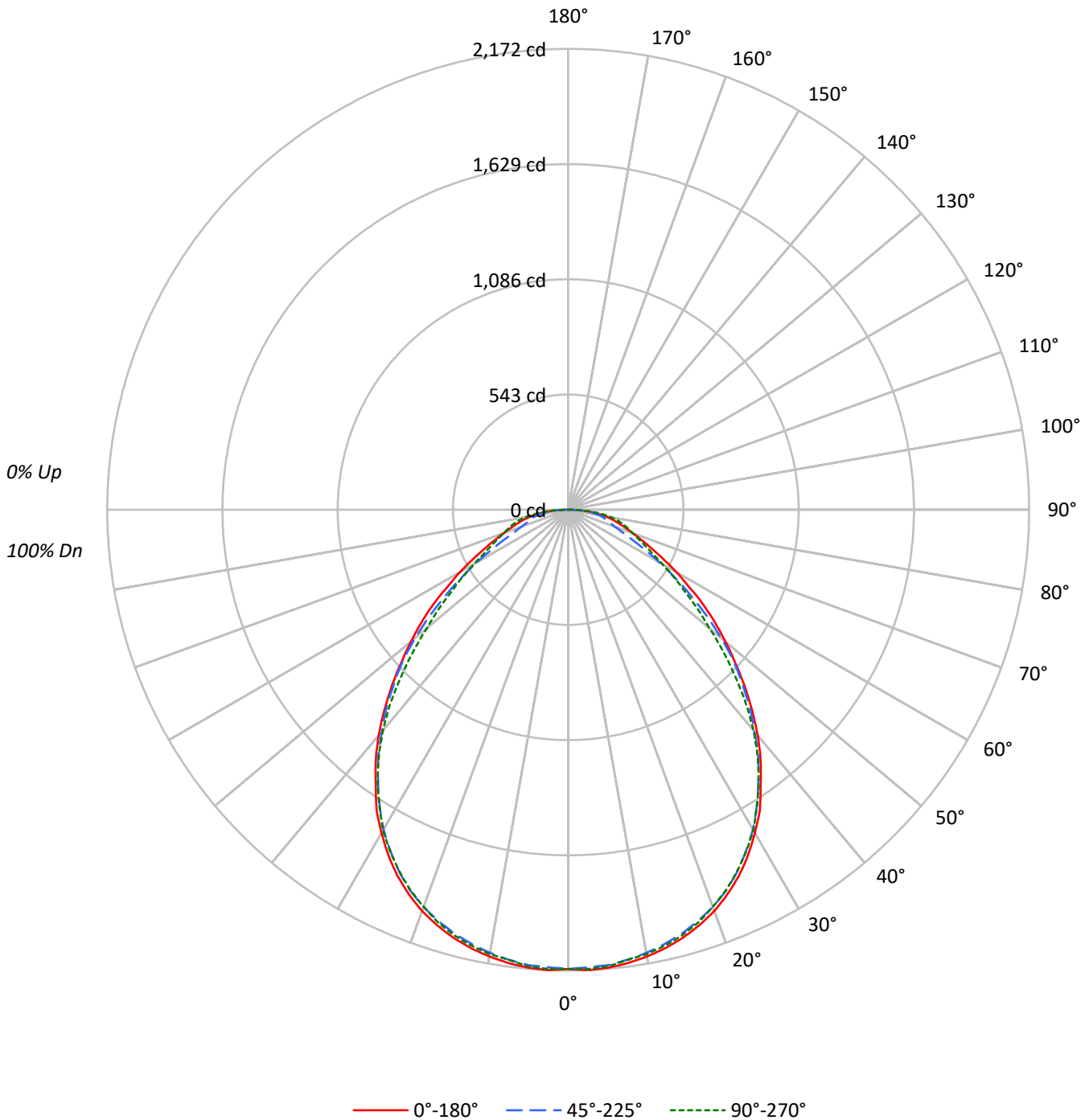
Input Watts (W): 39.06
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63					63			
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2912	2912	2912
5°	2926	2910	2917
10°	2921	2897	2905
15°	2910	2880	2893
20°	2882	2853	2852
25°	2826	2796	2794
30°	2733	2705	2710
35°	2596	2566	2570
40°	2441	2398	2384
45°	2237	2207	2119
50°	2022	1967	1819
55°	1815	1653	1568
60°	1590	1330	1379
65°	1387	1046	1269
70°	1269	913	1269
75°	1269	972	1398
80°	1378	1144	1594
85°	1513	1291	1711



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.0	4.2
10°-20°	584.9	12.0
20°-30°	867.3	17.8
30°-40°	978.4	20.1
40°-50°	886.1	18.2
50°-60°	639.3	13.1
60°-70°	381.7	7.8
70°-80°	235.9	4.8
80°-90°	99.4	2.0
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°	1657.1	34.0
0°-40°	2635.5	54.0
0°-60°	4161.0	85.3
0°-90°	4878.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4878.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2164	2164	2164	2164	2164	
5°	2167	2164	2154	2152	2160	206
15°	2089	2076	2068	2069	2077	589
25°	1904	1893	1883	1876	1882	874
35°	1580	1578	1562	1563	1564	989
45°	1176	1168	1160	1131	1114	906
55°	774	750	705	670	668	691
65°	436	384	329	373	399	438
75°	244	212	187	233	269	261
85°	98	86	84	109	111	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2164.3	2164.3	2164.3	2164.3	2164.3
2.5°	2171.8	2165.8	2158.3	2162.8	2166.6
5°	2166.6	2163.6	2154.5	2152.3	2159.8
7.5°	2155.3	2147.7	2139.4	2143.2	2140.2
10°	2137.9	2131.2	2120.6	2121.4	2126.6
12.5°	2116.8	2108.5	2097.2	2100.3	2104.8
15°	2089.0	2076.1	2067.9	2068.6	2076.9
17.5°	2053.5	2043.7	2033.2	2035.4	2039.2
20°	2012.8	2007.6	1992.5	1988.0	1991.7
22.5°	1961.6	1951.8	1943.5	1941.2	1942.0
25°	1903.6	1893.0	1883.2	1876.4	1881.7
27.5°	1835.7	1826.7	1813.9	1811.6	1816.2
30°	1758.9	1752.1	1740.8	1737.8	1744.6
32.5°	1680.5	1669.2	1653.4	1653.4	1654.9
35°	1580.3	1578.0	1562.2	1562.9	1564.5
37.5°	1489.8	1479.3	1470.3	1461.2	1465.7
40°	1389.6	1377.6	1365.5	1359.5	1357.2
42.5°	1281.9	1272.8	1267.5	1245.7	1240.4
45°	1175.6	1168.1	1159.8	1131.1	1113.8
47.5°	1067.1	1065.6	1058.8	1008.3	991.0
50°	966.1	963.8	939.7	886.2	868.9
52.5°	870.4	855.3	823.7	770.9	767.9
55°	773.9	749.8	704.6	669.9	668.4
57.5°	672.2	643.6	597.6	578.8	588.6
60°	590.8	547.1	494.4	496.6	512.4
62.5°	506.4	457.4	405.4	428.0	446.9
65°	435.6	383.6	328.6	373.0	398.6
67.5°	373.8	325.6	272.8	332.3	357.2
70°	322.5	283.4	232.1	294.7	322.5
72.5°	281.8	245.7	205.7	264.5	296.9
75°	244.2	211.8	186.9	232.9	269.0
77.5°	211.8	180.1	168.8	205.7	241.1
80°	177.8	149.2	147.7	179.4	205.7
82.5°	138.7	119.1	119.1	150.0	165.8
85°	98.0	85.9	83.6	109.3	110.8
87.5°	50.5	48.2	43.7	57.3	57.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)