

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: P293446

Luminaire Tested: **24GR-LD5-64-A-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293446
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-LD5-64-A-UNV-L83050-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6863.0 lumens
Efficiency: N/A
Efficacy: 142.5 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

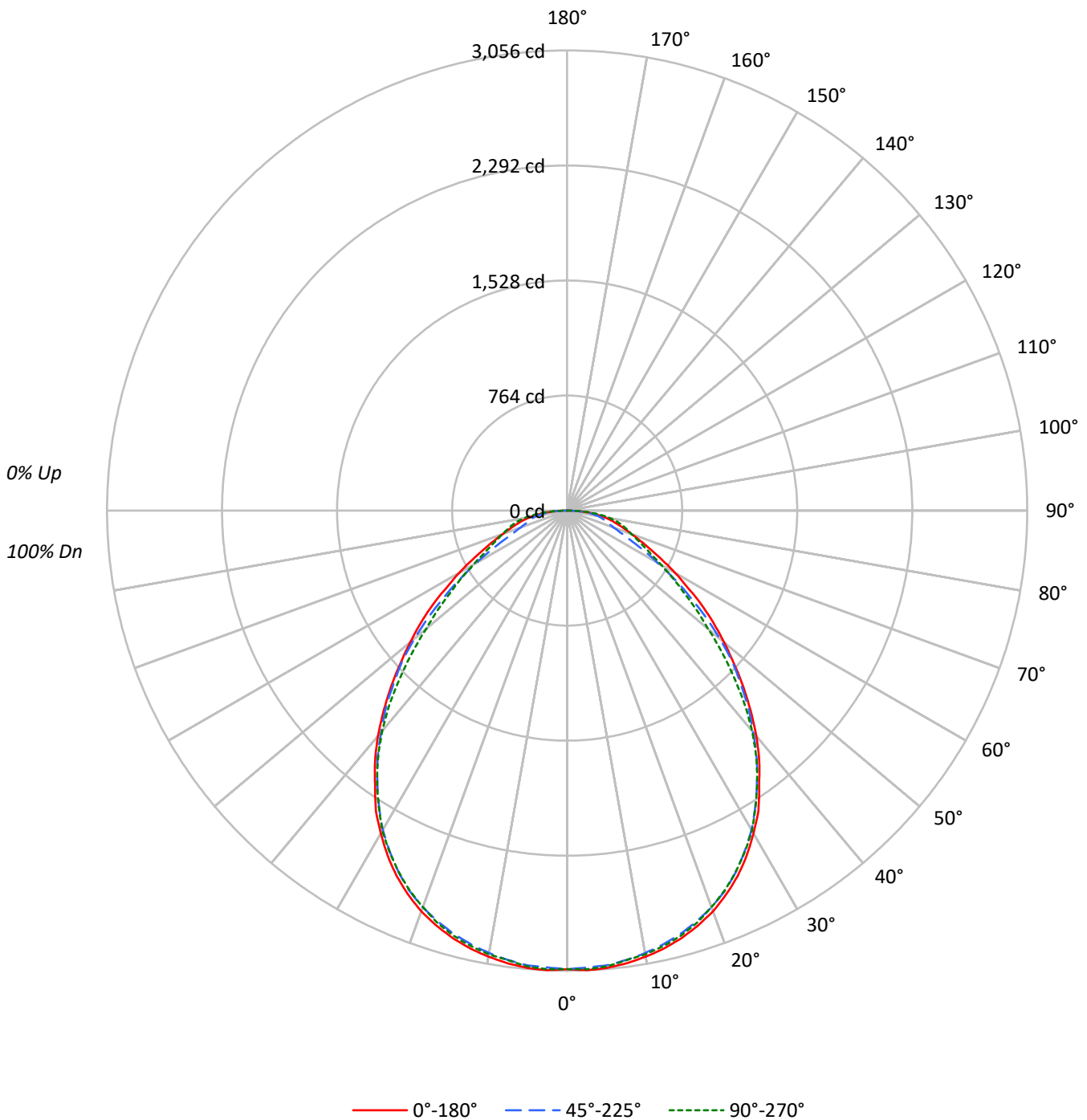
Input Watts (W): 48.174
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4097	4097	4097
5°	4117	4094	4104
10°	4110	4076	4088
15°	4094	4053	4070
20°	4055	4014	4012
25°	3976	3934	3930
30°	3845	3805	3813
35°	3652	3610	3615
40°	3434	3374	3354
45°	3147	3105	2982
50°	2845	2767	2559
55°	2554	2325	2206
60°	2237	1872	1940
65°	1951	1472	1786
70°	1785	1285	1785
75°	1786	1367	1968
80°	1939	1610	2242
85°	2127	1817	2407



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.4	4.2
10°-20°	822.9	12.0
20°-30°	1220.2	17.8
30°-40°	1376.5	20.1
40°-50°	1246.7	18.2
50°-60°	899.5	13.1
60°-70°	537.1	7.8
70°-80°	331.9	4.8
80°-90°	139.8	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°	2331.5	34.0
0°-40°	3708.0	54.0
0°-60°	5854.2	85.3
0°-90°	6863.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6863.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3045	3045	3045	3045	3045	
5°	3048	3044	3031	3028	3039	290
15°	2939	2921	2909	2910	2922	828
25°	2678	2663	2650	2640	2647	1230
35°	2223	2220	2198	2199	2201	1391
45°	1654	1643	1632	1591	1567	1275
55°	1089	1055	991	943	940	972
65°	613	540	462	525	561	616
75°	344	298	263	328	378	367
85°	138	121	118	154	156	144
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3045.0	3045.0	3045.0	3045.0	3045.0
2.5°	3055.6	3047.2	3036.6	3042.9	3048.2
5°	3048.2	3044.0	3031.3	3028.1	3038.7
7.5°	3032.3	3021.7	3010.0	3015.3	3011.1
10°	3007.9	2998.4	2983.5	2984.6	2992.0
12.5°	2978.2	2966.6	2950.7	2954.9	2961.3
15°	2939.0	2921.0	2909.3	2910.4	2922.0
17.5°	2889.2	2875.4	2860.6	2863.7	2869.0
20°	2831.9	2824.5	2803.3	2796.9	2802.2
22.5°	2759.8	2746.0	2734.4	2731.2	2732.3
25°	2678.2	2663.3	2649.6	2640.0	2647.4
27.5°	2582.8	2570.0	2552.0	2548.8	2555.2
30°	2474.6	2465.1	2449.2	2444.9	2454.5
32.5°	2364.4	2348.5	2326.2	2326.2	2328.3
35°	2223.3	2220.2	2197.9	2199.0	2201.1
37.5°	2096.1	2081.3	2068.5	2055.8	2062.2
40°	1955.1	1938.1	1921.2	1912.7	1909.5
42.5°	1803.5	1790.8	1783.3	1752.6	1745.2
45°	1654.0	1643.4	1631.7	1591.4	1567.0
47.5°	1501.3	1499.2	1489.6	1418.6	1394.2
50°	1359.2	1356.1	1322.1	1246.9	1222.5
52.5°	1224.6	1203.4	1158.9	1084.6	1080.4
55°	1088.9	1054.9	991.3	942.6	940.4
57.5°	945.7	905.5	840.8	814.3	828.1
60°	831.2	769.7	695.5	698.7	721.0
62.5°	712.5	643.6	570.4	602.2	628.7
65°	612.8	539.7	462.3	524.8	560.9
67.5°	525.9	458.0	383.8	467.6	502.6
70°	453.8	398.7	326.6	414.6	453.8
72.5°	396.5	345.6	289.4	372.1	417.7
75°	343.5	297.9	262.9	327.6	378.5
77.5°	297.9	253.4	237.5	289.4	339.3
80°	250.2	209.9	207.8	252.3	289.4
82.5°	195.1	167.5	167.5	211.0	233.3
85°	137.8	120.9	117.7	153.7	155.9
87.5°	71.0	67.9	61.5	80.6	80.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)