

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: P293645

Luminaire Tested: **24GR-LD5-64-A-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293645
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-L92765-W2A1-U-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6103.0 lumens
Efficiency: N/A
Efficacy: 128.9 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

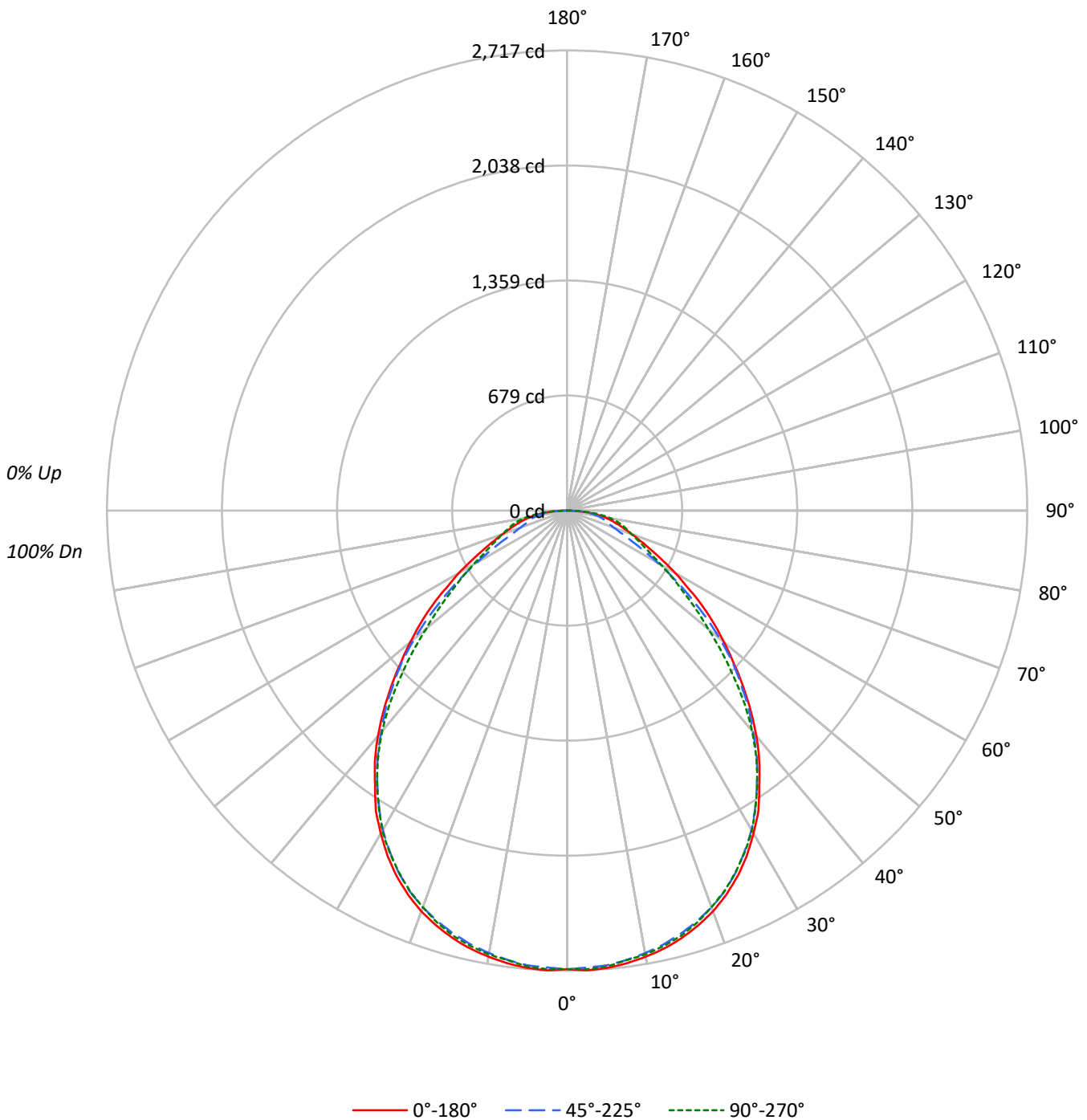
Input Watts (W): 47.337
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3643	3643	3643
5°	3661	3641	3650
10°	3654	3625	3635
15°	3640	3604	3620
20°	3606	3569	3568
25°	3536	3498	3495
30°	3419	3384	3391
35°	3247	3210	3215
40°	3054	3001	2983
45°	2799	2761	2652
50°	2530	2461	2276
55°	2271	2068	1962
60°	1989	1664	1725
65°	1735	1309	1588
70°	1587	1142	1587
75°	1588	1215	1750
80°	1724	1432	1994
85°	1893	1616	2140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.4	4.2
10°-20°	731.8	12.0
20°-30°	1085.1	17.8
30°-40°	1224.1	20.1
40°-50°	1108.7	18.2
50°-60°	799.8	13.1
60°-70°	477.6	7.8
70°-80°	295.2	4.8
80°-90°	124.4	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°	2073.3	34.0
0°-40°	3297.4	54.0
0°-60°	5205.9	85.3
0°-90°	6103.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6103.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2708	2708	2708	2708	2708	
5°	2711	2707	2696	2693	2702	258
15°	2614	2598	2587	2588	2598	737
25°	2382	2368	2356	2348	2354	1094
35°	1977	1974	1954	1955	1957	1237
45°	1471	1461	1451	1415	1394	1133
55°	968	938	882	838	836	864
65°	545	480	411	467	499	548
75°	306	265	234	291	337	326
85°	123	108	105	137	139	128
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2707.8	2707.8	2707.8	2707.8	2707.8
2.5°	2717.3	2709.7	2700.3	2705.9	2710.7
5°	2710.7	2706.9	2695.6	2692.7	2702.2
7.5°	2696.5	2687.1	2676.7	2681.4	2677.7
10°	2674.8	2666.3	2653.1	2654.1	2660.7
12.5°	2648.4	2638.1	2623.9	2627.7	2633.3
15°	2613.5	2597.5	2587.1	2588.1	2598.5
17.5°	2569.2	2557.0	2543.8	2546.6	2551.3
20°	2518.3	2511.7	2492.9	2487.2	2491.9
22.5°	2454.2	2442.0	2431.6	2428.8	2429.7
25°	2381.6	2368.4	2356.2	2347.7	2354.3
27.5°	2296.8	2285.4	2269.4	2266.6	2272.2
30°	2200.6	2192.1	2178.0	2174.2	2182.7
32.5°	2102.5	2088.4	2068.6	2068.6	2070.5
35°	1977.1	1974.3	1954.5	1955.4	1957.3
37.5°	1864.0	1850.8	1839.5	1828.2	1833.8
40°	1738.6	1723.5	1708.4	1700.9	1698.1
42.5°	1603.8	1592.5	1585.9	1558.5	1551.9
45°	1470.8	1461.4	1451.0	1415.2	1393.5
47.5°	1335.1	1333.2	1324.7	1261.5	1239.8
50°	1208.7	1205.9	1175.7	1108.8	1087.1
52.5°	1089.0	1070.1	1030.5	964.5	960.8
55°	968.3	938.1	881.6	838.2	836.3
57.5°	841.0	805.2	747.7	724.1	736.4
60°	739.2	684.5	618.5	621.3	641.1
62.5°	633.6	572.3	507.2	535.5	559.1
65°	545.0	479.9	411.1	466.7	498.8
67.5°	467.6	407.3	341.3	415.8	446.9
70°	403.5	354.5	290.4	368.6	403.5
72.5°	352.6	307.4	257.4	330.9	371.5
75°	305.5	264.9	233.8	291.3	336.6
77.5°	264.9	225.3	211.2	257.4	301.7
80°	222.5	186.7	184.8	224.4	257.4
82.5°	173.5	149.0	149.0	187.6	207.4
85°	122.6	107.5	104.7	136.7	138.6
87.5°	63.2	60.3	54.7	71.7	71.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)