

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: P293513

Luminaire Tested: **24GR-LD5-64-A-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293513
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-L82765-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6112.0 lumens
Efficiency: N/A
Efficacy: 133.8 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

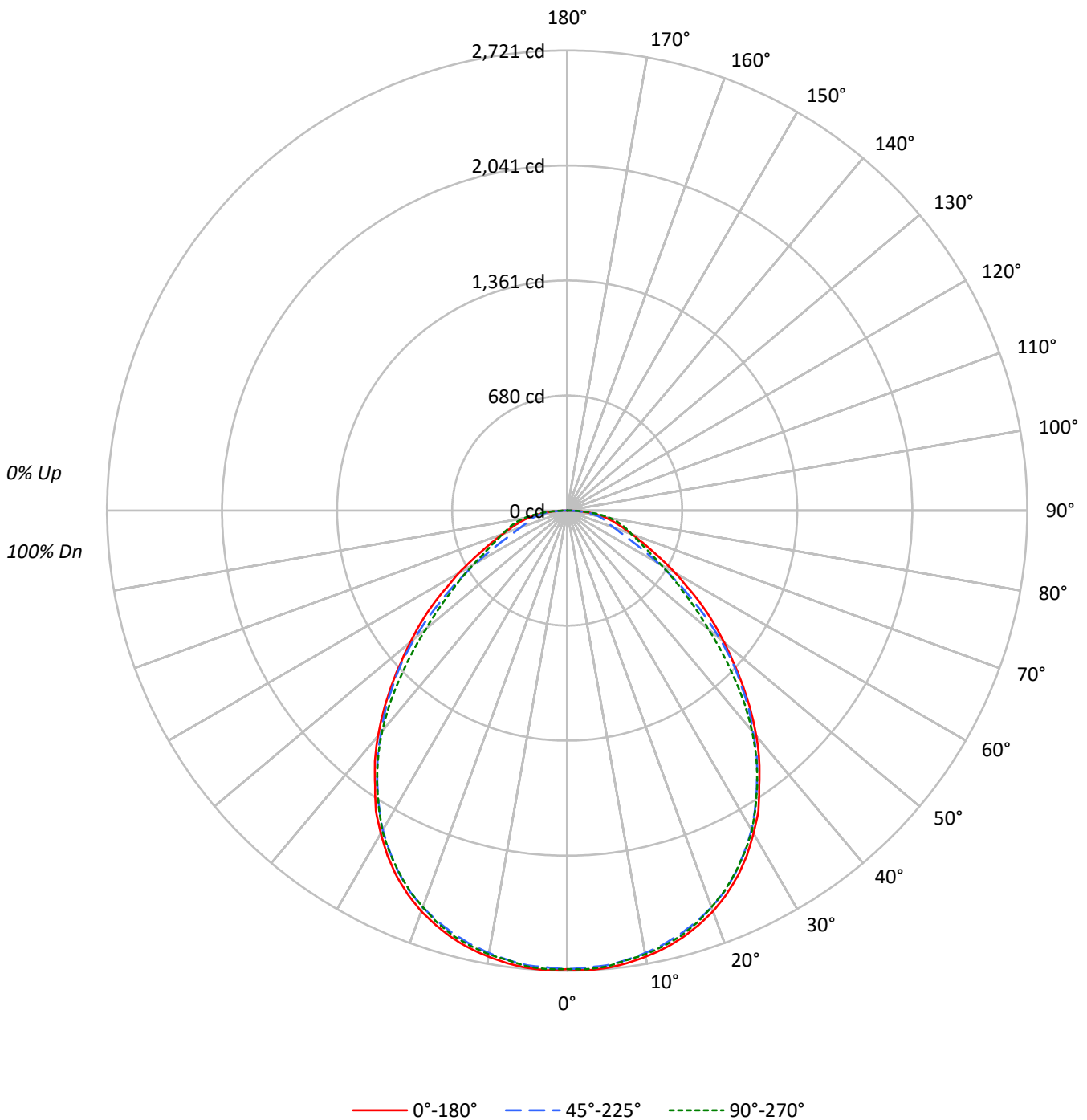
Input Watts (W): 45.663
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3649	3649	3649
5°	3667	3646	3655
10°	3660	3630	3640
15°	3646	3609	3625
20°	3611	3575	3573
25°	3541	3503	3500
30°	3424	3389	3396
35°	3252	3215	3220
40°	3058	3005	2987
45°	2803	2765	2656
50°	2534	2465	2279
55°	2275	2071	1965
60°	1992	1667	1728
65°	1738	1311	1590
70°	1590	1144	1590
75°	1590	1218	1752
80°	1726	1434	1998
85°	1894	1618	2143



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.8	4.2
10°-20°	732.9	12.0
20°-30°	1086.7	17.8
30°-40°	1225.9	20.1
40°-50°	1110.3	18.2
50°-60°	801.0	13.1
60°-70°	478.3	7.8
70°-80°	295.6	4.8
80°-90°	124.5	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°	2076.3	34.0
0°-40°	3302.2	54.0
0°-60°	5213.6	85.3
0°-90°	6112.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6112.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2712	2712	2712	2712	2712	
5°	2715	2711	2700	2697	2706	258
15°	2617	2601	2591	2592	2602	738
25°	2385	2372	2360	2351	2358	1096
35°	1980	1977	1957	1958	1960	1239
45°	1473	1464	1453	1417	1396	1135
55°	970	940	883	839	838	866
65°	546	481	412	467	500	549
75°	306	265	234	292	337	327
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°	2711.8	2711.8	2711.8	2711.8	2711.8
2.5°	2721.3	2713.7	2704.3	2709.9	2714.7
5°	2714.7	2710.9	2699.5	2696.7	2706.2
7.5°	2700.5	2691.1	2680.7	2685.4	2681.6
10°	2678.8	2670.3	2657.1	2658.0	2664.6
12.5°	2652.3	2642.0	2627.8	2631.6	2637.2
15°	2617.4	2601.3	2591.0	2591.9	2602.3
17.5°	2573.0	2560.7	2547.5	2550.4	2555.1
20°	2522.0	2515.4	2496.5	2490.9	2495.6
22.5°	2457.8	2445.6	2435.2	2432.3	2433.3
25°	2385.1	2371.9	2359.6	2351.1	2357.7
27.5°	2300.1	2288.8	2272.8	2269.9	2275.6
30°	2203.8	2195.3	2181.2	2177.4	2185.9
32.5°	2105.6	2091.5	2071.6	2071.6	2073.5
35°	1980.0	1977.2	1957.4	1958.3	1960.2
37.5°	1866.7	1853.5	1842.2	1830.9	1836.5
40°	1741.2	1726.0	1710.9	1703.4	1700.6
42.5°	1606.1	1594.8	1588.2	1560.8	1554.2
45°	1473.0	1463.6	1453.2	1417.3	1395.6
47.5°	1337.0	1335.1	1326.6	1263.4	1241.7
50°	1210.5	1207.7	1177.5	1110.4	1088.7
52.5°	1090.6	1071.7	1032.0	965.9	962.2
55°	969.7	939.5	882.9	839.4	837.5
57.5°	842.3	806.4	748.8	725.2	737.4
60°	740.3	685.5	619.4	622.2	642.1
62.5°	634.5	573.1	508.0	536.3	559.9
65°	545.8	480.6	411.7	467.4	499.5
67.5°	468.3	407.9	341.8	416.4	447.6
70°	404.1	355.0	290.8	369.2	404.1
72.5°	353.1	307.8	257.8	331.4	372.0
75°	305.9	265.3	234.2	291.8	337.1
77.5°	265.3	225.7	211.5	257.8	302.2
80°	222.8	187.0	185.1	224.7	257.8
82.5°	173.7	149.2	149.2	187.9	207.7
85°	122.7	107.6	104.8	136.9	138.8
87.5°	63.3	60.4	54.8	71.8	71.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)