

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: P293443

Luminaire Tested: **24GR-LD5-64-A-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293443
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-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: 6118.0 lumens
Efficiency: N/A
Efficacy: 133.4 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

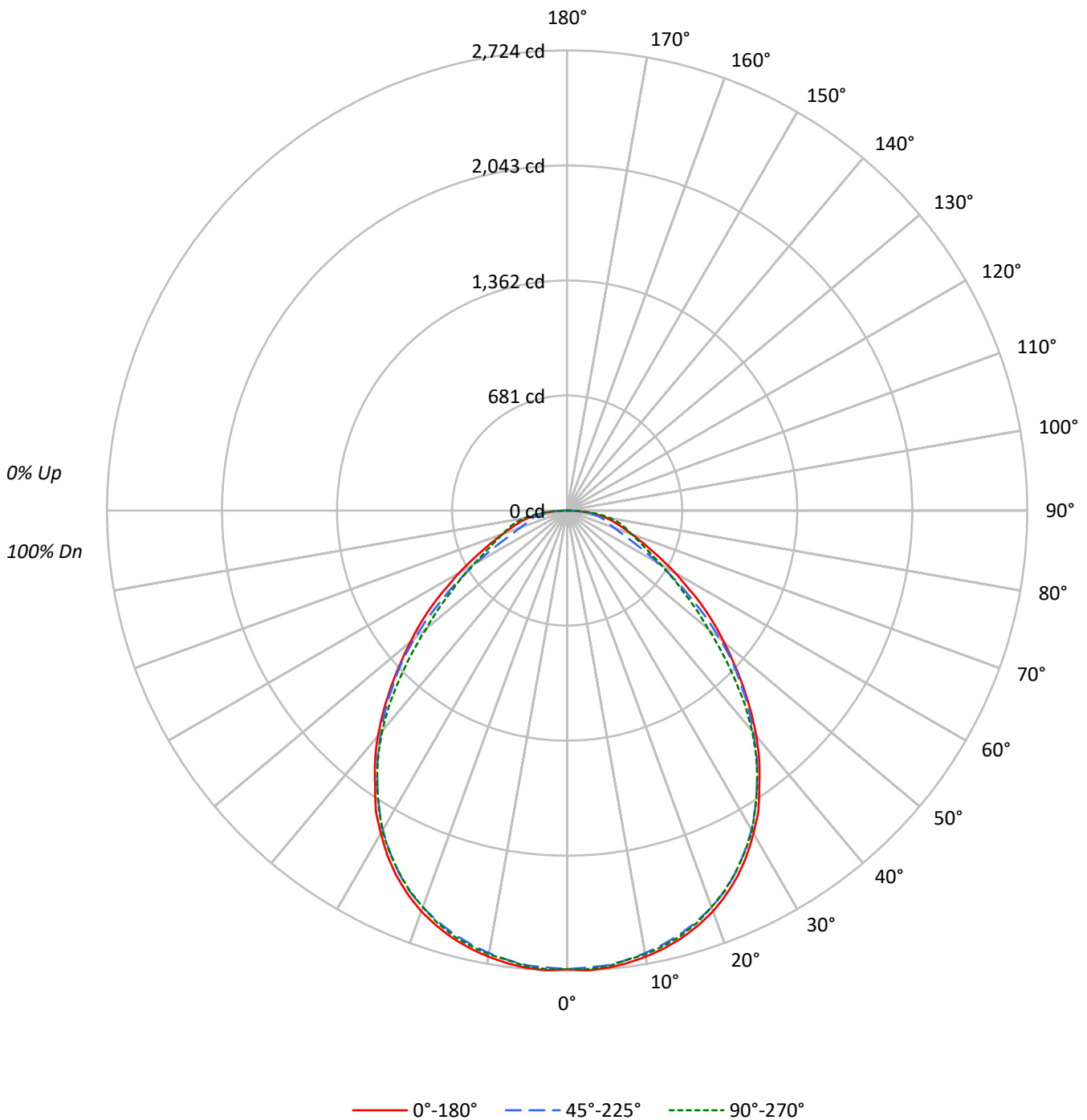
Input Watts (W): 45.849
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3652	3652	3652
5°	3670	3650	3659
10°	3663	3634	3644
15°	3650	3613	3628
20°	3615	3578	3577
25°	3544	3506	3504
30°	3427	3392	3399
35°	3256	3218	3223
40°	3061	3008	2990
45°	2806	2768	2658
50°	2536	2467	2281
55°	2277	2073	1967
60°	1994	1668	1729
65°	1739	1312	1592
70°	1591	1145	1591
75°	1592	1219	1754
80°	1729	1436	1999
85°	1897	1619	2144



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.1	4.2
10°-20°	733.6	12.0
20°-30°	1087.8	17.8
30°-40°	1227.1	20.1
40°-50°	1111.4	18.2
50°-60°	801.8	13.1
60°-70°	478.7	7.8
70°-80°	295.9	4.8
80°-90°	124.6	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°	2078.4	34.0
0°-40°	3305.5	54.0
0°-60°	5218.7	85.3
0°-90°	6118.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6118.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2714	2714	2714	2714	2714	
5°	2717	2714	2702	2699	2709	258
15°	2620	2604	2594	2594	2605	739
25°	2388	2374	2362	2353	2360	1097
35°	1982	1979	1959	1960	1962	1240
45°	1474	1465	1455	1419	1397	1136
55°	971	940	884	840	838	867
65°	546	481	412	468	500	550
75°	306	266	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°	2714.5	2714.5	2714.5	2714.5	2714.5
2.5°	2723.9	2716.4	2706.9	2712.6	2717.3
5°	2717.3	2713.5	2702.2	2699.4	2708.8
7.5°	2703.1	2693.7	2683.3	2688.0	2684.2
10°	2681.4	2672.9	2659.7	2660.6	2667.2
12.5°	2654.9	2644.5	2630.4	2634.1	2639.8
15°	2620.0	2603.9	2593.5	2594.5	2604.8
17.5°	2575.5	2563.3	2550.0	2552.9	2557.6
20°	2524.5	2517.9	2499.0	2493.3	2498.0
22.5°	2460.2	2448.0	2437.6	2434.7	2435.7
25°	2387.5	2374.2	2361.9	2353.4	2360.1
27.5°	2302.4	2291.1	2275.0	2272.2	2277.8
30°	2206.0	2197.5	2183.3	2179.5	2188.0
32.5°	2107.7	2093.5	2073.7	2073.7	2075.6
35°	1982.0	1979.2	1959.3	1960.3	1962.1
37.5°	1868.6	1855.3	1844.0	1832.7	1838.3
40°	1742.9	1727.7	1712.6	1705.1	1702.2
42.5°	1607.7	1596.4	1589.8	1562.3	1555.7
45°	1474.4	1465.0	1454.6	1418.7	1396.9
47.5°	1338.3	1336.4	1327.9	1264.6	1242.9
50°	1211.7	1208.9	1178.6	1111.5	1089.8
52.5°	1091.7	1072.8	1033.1	966.9	963.1
55°	970.7	940.4	883.7	840.2	838.4
57.5°	843.1	807.2	749.5	725.9	738.2
60°	741.0	686.2	620.0	622.9	642.7
62.5°	635.1	573.7	508.5	536.8	560.5
65°	546.3	481.1	412.1	467.9	500.0
67.5°	468.8	408.3	342.1	416.8	448.0
70°	404.5	355.4	291.1	369.6	404.5
72.5°	353.5	308.1	258.0	331.7	372.4
75°	306.2	265.6	234.4	292.1	337.4
77.5°	265.6	225.9	211.7	258.0	302.4
80°	223.1	187.1	185.3	224.9	258.0
82.5°	173.9	149.3	149.3	188.1	207.9
85°	122.9	107.7	104.9	137.0	138.9
87.5°	63.3	60.5	54.8	71.8	71.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)