

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: P293445

Luminaire Tested: **24GR-LD5-64-A-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293445
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-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6798.0 lumens
Efficiency: N/A
Efficacy: 144.7 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

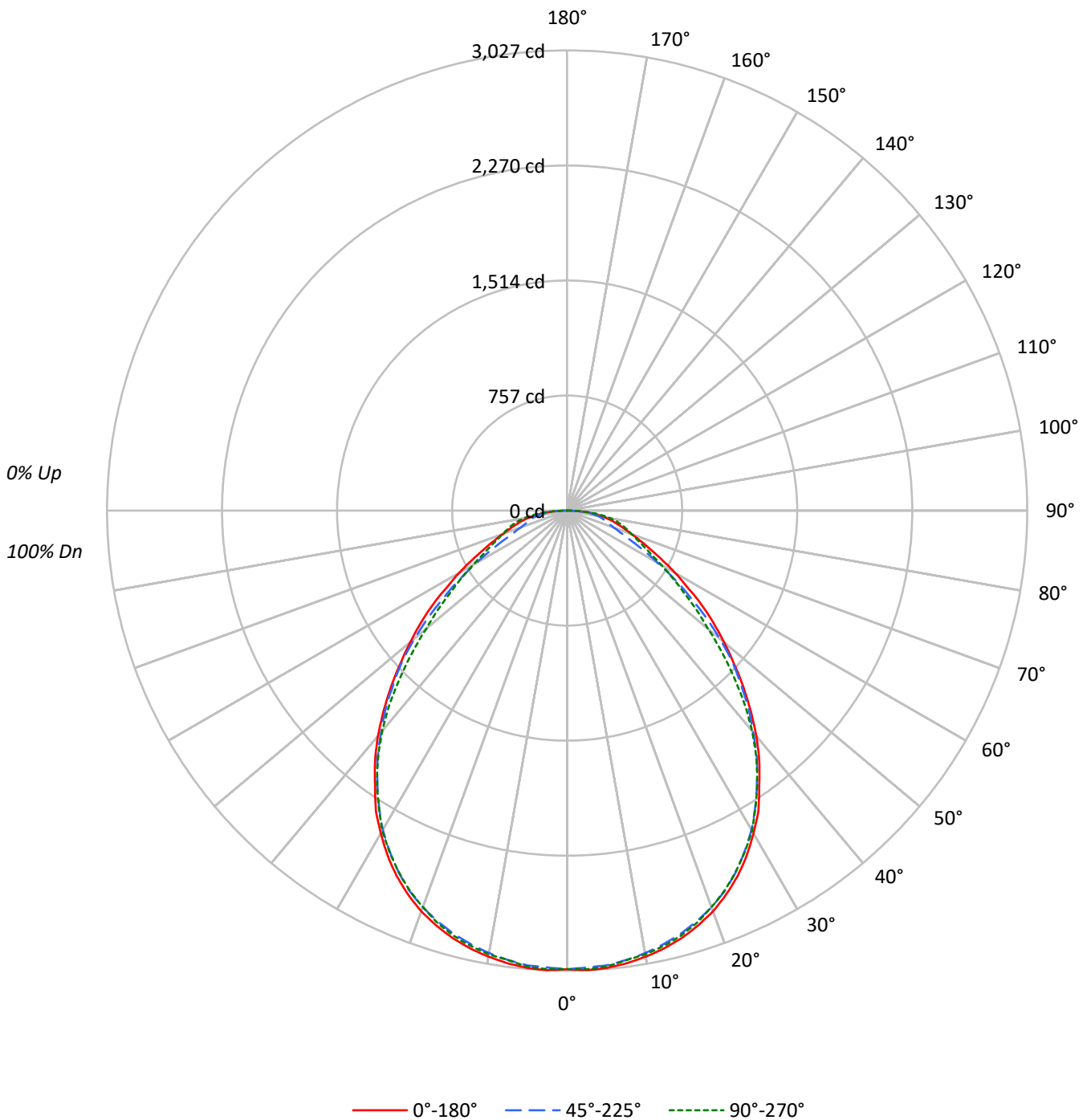
Input Watts (W): 46.965
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4058	4058	4058
5°	4078	4055	4065
10°	4071	4038	4049
15°	4055	4014	4032
20°	4016	3976	3974
25°	3938	3896	3893
30°	3808	3769	3777
35°	3617	3576	3581
40°	3401	3342	3322
45°	3117	3076	2954
50°	2818	2741	2535
55°	2530	2303	2185
60°	2216	1854	1922
65°	1933	1458	1769
70°	1768	1273	1768
75°	1769	1354	1949
80°	1920	1595	2221
85°	2107	1800	2384



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.6	4.2
10°-20°	815.1	12.0
20°-30°	1208.6	17.8
30°-40°	1363.5	20.1
40°-50°	1234.9	18.2
50°-60°	890.9	13.1
60°-70°	532.0	7.8
70°-80°	328.8	4.8
80°-90°	138.5	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°	2309.4	34.0
0°-40°	3672.9	54.0
0°-60°	5798.8	85.3
0°-90°	6798.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6798.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3016	3016	3016	3016	3016	
5°	3019	3015	3002	2999	3010	287
15°	2911	2893	2882	2883	2894	821
25°	2653	2638	2624	2615	2622	1219
35°	2202	2199	2177	2178	2180	1378
45°	1638	1628	1616	1576	1552	1263
55°	1079	1045	982	934	932	963
65°	607	535	458	520	556	611
75°	340	295	260	324	375	363
85°	136	120	117	152	154	143
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3016.2	3016.2	3016.2	3016.2	3016.2
2.5°	3026.7	3018.3	3007.8	3014.1	3019.3
5°	3019.3	3015.1	3002.5	2999.4	3009.9
7.5°	3003.6	2993.1	2981.5	2986.8	2982.6
10°	2979.4	2970.0	2955.3	2956.3	2963.7
12.5°	2950.0	2938.5	2922.7	2926.9	2933.2
15°	2911.2	2893.3	2881.8	2882.8	2894.4
17.5°	2861.8	2848.2	2833.5	2836.6	2841.9
20°	2805.1	2797.8	2776.7	2770.4	2775.7
22.5°	2733.7	2720.0	2708.5	2705.3	2706.4
25°	2652.8	2638.1	2624.5	2615.0	2622.4
27.5°	2558.3	2545.7	2527.8	2524.7	2531.0
30°	2451.2	2441.7	2426.0	2421.8	2431.2
32.5°	2342.0	2326.2	2304.2	2304.2	2306.3
35°	2202.3	2199.1	2177.1	2178.1	2180.2
37.5°	2076.3	2061.6	2049.0	2036.4	2042.7
40°	1936.6	1919.8	1903.0	1894.6	1891.4
42.5°	1786.4	1773.8	1766.4	1736.0	1728.6
45°	1638.3	1627.8	1616.3	1576.4	1552.2
47.5°	1487.1	1485.0	1475.5	1405.2	1381.0
50°	1346.4	1343.2	1309.6	1235.0	1210.9
52.5°	1213.0	1192.0	1147.9	1074.4	1070.2
55°	1078.6	1045.0	981.9	933.6	931.5
57.5°	936.8	896.9	832.8	806.6	820.2
60°	823.4	762.5	688.9	692.1	714.1
62.5°	705.7	637.5	565.0	596.5	622.8
65°	607.0	534.6	457.9	519.9	555.6
67.5°	520.9	453.7	380.2	463.1	497.8
70°	449.5	394.9	323.5	410.6	449.5
72.5°	392.8	342.4	286.7	368.6	413.8
75°	340.3	295.1	260.5	324.5	374.9
77.5°	295.1	251.0	235.2	286.7	336.1
80°	247.8	207.9	205.8	249.9	286.7
82.5°	193.2	165.9	165.9	209.0	231.0
85°	136.5	119.7	116.6	152.3	154.4
87.5°	70.4	67.2	60.9	79.8	79.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)