

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: P293514

Luminaire Tested: **24GR-LD5-64-A-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293514
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-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6323.0 lumens
Efficiency: N/A
Efficacy: 137.1 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

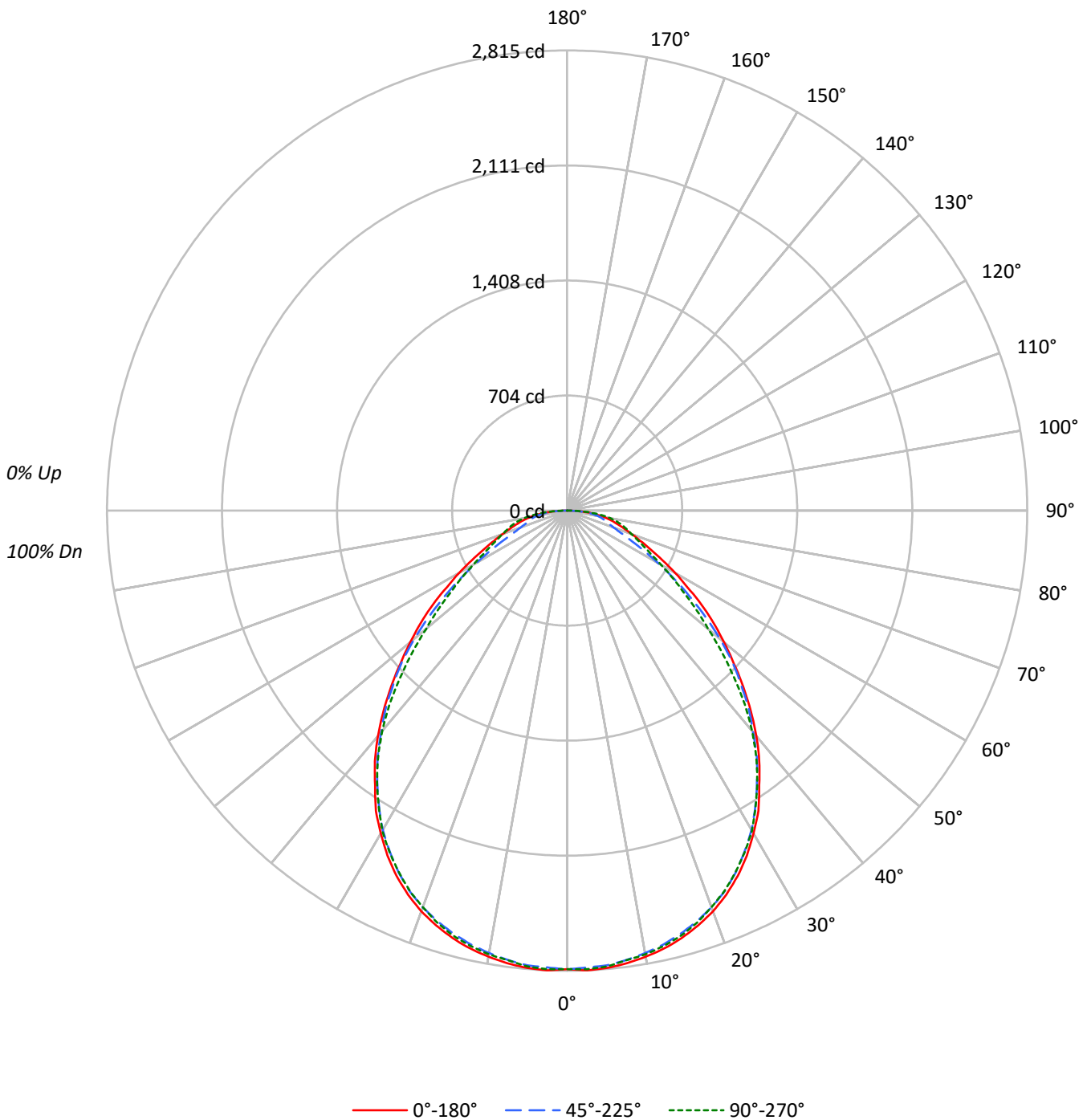
Input Watts (W): 46.128
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3775	3775	3775
5°	3793	3772	3781
10°	3786	3756	3766
15°	3772	3734	3750
20°	3736	3698	3697
25°	3663	3624	3621
30°	3542	3506	3513
35°	3365	3326	3331
40°	3164	3109	3090
45°	2900	2860	2747
50°	2621	2550	2358
55°	2353	2142	2032
60°	2061	1724	1787
65°	1798	1356	1645
70°	1645	1184	1645
75°	1645	1260	1813
80°	1786	1484	2066
85°	1961	1673	2217



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.7	4.2
10°-20°	758.2	12.0
20°-30°	1124.2	17.8
30°-40°	1268.2	20.1
40°-50°	1148.6	18.2
50°-60°	828.7	13.1
60°-70°	494.8	7.8
70°-80°	305.8	4.8
80°-90°	128.8	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°	2148.0	34.0
0°-40°	3416.3	54.0
0°-60°	5393.6	85.3
0°-90°	6323.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6323.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2805	2805	2805	2805	2805	
5°	2808	2804	2793	2790	2800	267
15°	2708	2691	2680	2681	2692	763
25°	2468	2454	2441	2432	2439	1134
35°	2048	2046	2025	2026	2028	1282
45°	1524	1514	1503	1466	1444	1174
55°	1003	972	913	868	866	896
65°	565	497	426	484	517	568
75°	316	274	242	302	349	338
85°	127	111	108	142	144	133
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2805.4	2805.4	2805.4	2805.4	2805.4
2.5°	2815.2	2807.4	2797.6	2803.5	2808.4
5°	2808.4	2804.5	2792.7	2789.8	2799.6
7.5°	2793.7	2784.0	2773.2	2778.1	2774.2
10°	2771.3	2762.5	2748.8	2749.8	2756.6
12.5°	2743.9	2733.2	2718.5	2722.4	2728.3
15°	2707.8	2691.2	2680.4	2681.4	2692.1
17.5°	2661.8	2649.1	2635.5	2638.4	2643.3
20°	2609.1	2602.3	2582.7	2576.9	2581.7
22.5°	2542.7	2530.0	2519.2	2516.3	2517.3
25°	2467.5	2453.8	2441.1	2432.3	2439.1
27.5°	2379.5	2367.8	2351.2	2348.3	2354.1
30°	2279.9	2271.1	2256.5	2252.6	2261.4
32.5°	2178.3	2163.7	2143.2	2143.2	2145.1
35°	2048.4	2045.5	2025.0	2025.9	2027.9
37.5°	1931.2	1917.5	1905.8	1894.1	1899.9
40°	1801.3	1785.6	1770.0	1762.2	1759.3
42.5°	1661.6	1649.9	1643.0	1614.7	1607.9
45°	1523.8	1514.1	1503.3	1466.2	1443.7
47.5°	1383.2	1381.2	1372.4	1307.0	1284.5
50°	1252.3	1249.4	1218.1	1148.7	1126.3
52.5°	1128.2	1108.7	1067.7	999.3	995.4
55°	1003.2	971.9	913.3	868.4	866.4
57.5°	871.3	834.2	774.6	750.2	762.9
60°	765.8	709.2	640.8	643.7	664.2
62.5°	656.4	592.9	525.5	554.8	579.3
65°	564.6	497.2	425.9	483.5	516.7
67.5°	484.5	422.0	353.6	430.8	463.0
70°	418.1	367.3	300.9	381.9	418.1
72.5°	365.3	318.4	266.7	342.9	384.9
75°	316.5	274.5	242.3	301.8	348.7
77.5°	274.5	233.5	218.8	266.7	312.6
80°	230.5	193.4	191.5	232.5	266.7
82.5°	179.7	154.3	154.3	194.4	214.9
85°	127.0	111.4	108.4	141.6	143.6
87.5°	65.4	62.5	56.7	74.2	74.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)