

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: P293010

Luminaire Tested: **24GR-LD5-64-F1-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293010
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-64-F1-UNV-L82765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6250.0 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

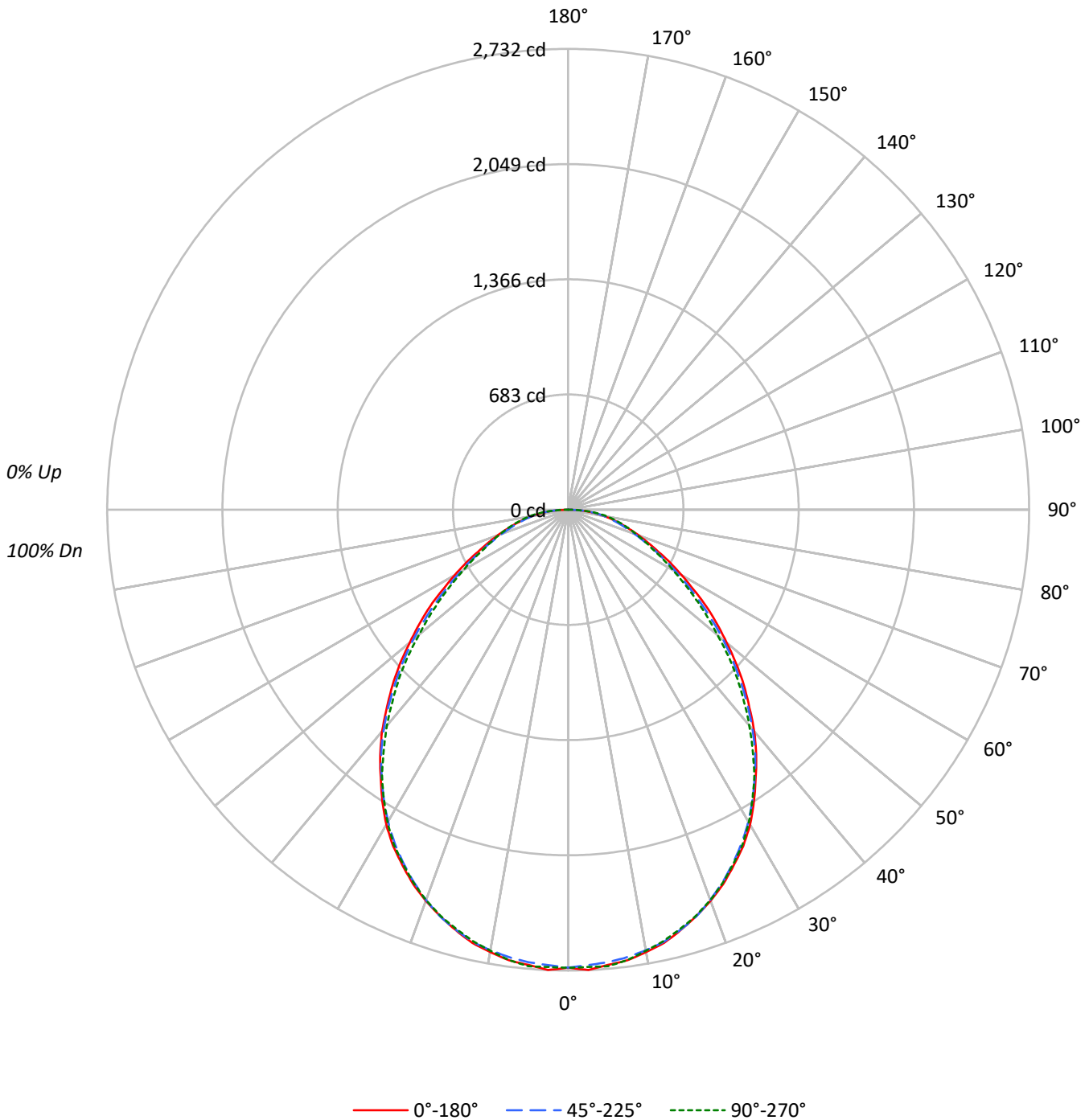
Input Watts (W): 46.128
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72					72			
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62					62			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37					37			
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31					31			
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3653	3653	3653
5°	3658	3637	3668
10°	3639	3623	3626
15°	3593	3590	3581
20°	3533	3525	3525
25°	3451	3431	3439
30°	3351	3317	3327
35°	3182	3168	3159
40°	3014	2986	2934
45°	2801	2752	2698
50°	2566	2510	2415
55°	2344	2238	2162
60°	2088	1988	1936
65°	1880	1781	1756
70°	1745	1638	1704
75°	1669	1595	1729
80°	1668	1668	1848
85°	1732	1751	1950



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.4	4.1
10°-20°	725.6	11.6
20°-30°	1064.9	17.0
30°-40°	1203.9	19.3
40°-50°	1112.7	17.8
50°-60°	857.3	13.7
60°-70°	567.7	9.1
70°-80°	337.9	5.4
80°-90°	123.8	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°	2046.8	32.7
0°-40°	3250.7	52.0
0°-60°	5220.6	83.5
0°-90°	6250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6250.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2715	2715	2715	2715	2715	
5°	2708	2708	2693	2694	2716	257
15°	2580	2574	2577	2576	2570	727
25°	2324	2318	2311	2309	2316	1070
35°	1938	1935	1928	1920	1923	1212
45°	1472	1462	1446	1421	1418	1134
55°	999	978	954	928	922	891
65°	590	581	560	554	552	592
75°	321	313	307	321	333	342
85°	112	106	113	125	126	119
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2714.9	2714.9	2714.9	2714.9	2714.9
2.5°	2731.6	2717.4	2702.0	2702.0	2713.6
5°	2708.4	2708.4	2692.9	2694.2	2716.1
7.5°	2694.2	2686.5	2676.2	2676.2	2692.9
10°	2663.3	2656.8	2651.7	2649.1	2654.3
12.5°	2629.8	2619.5	2623.3	2619.5	2618.2
15°	2579.5	2574.3	2576.9	2575.6	2570.5
17.5°	2525.4	2522.8	2527.9	2518.9	2522.8
20°	2467.3	2459.6	2462.2	2457.0	2462.2
22.5°	2401.6	2396.4	2390.0	2383.6	2393.9
25°	2324.3	2317.8	2311.4	2308.8	2316.5
27.5°	2246.9	2236.6	2227.6	2225.0	2236.6
30°	2156.7	2145.1	2134.8	2132.2	2141.2
32.5°	2049.7	2047.1	2034.2	2029.0	2032.9
35°	1937.5	1934.9	1928.5	1919.5	1923.3
37.5°	1830.5	1829.2	1820.2	1804.7	1794.4
40°	1715.8	1706.8	1700.3	1678.4	1670.7
42.5°	1589.5	1586.9	1575.3	1550.8	1541.8
45°	1472.2	1461.8	1446.4	1420.6	1418.0
47.5°	1351.0	1336.8	1322.6	1290.4	1289.1
50°	1225.9	1215.6	1198.9	1166.6	1153.7
52.5°	1109.9	1095.7	1072.5	1041.6	1035.2
55°	999.1	978.4	953.9	928.2	921.7
57.5°	880.5	871.4	841.8	821.2	813.4
60°	776.0	768.3	738.7	719.3	719.3
62.5°	681.9	670.3	644.6	631.7	631.7
65°	590.4	581.4	559.5	554.3	551.7
67.5°	511.8	500.2	484.7	483.4	489.9
70°	443.5	429.3	416.4	429.3	433.1
72.5°	379.0	370.0	358.4	375.1	382.9
75°	321.0	313.3	306.8	321.0	332.6
77.5°	268.1	260.4	260.4	275.9	286.2
80°	215.3	210.1	215.3	228.2	238.5
82.5°	165.0	161.1	167.6	180.5	186.9
85°	112.2	105.7	113.4	125.0	126.3
87.5°	52.9	51.6	56.7	64.5	63.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)