

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: P293008

Luminaire Tested: **24GR-LD5-64-F1-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293008
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-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5872.0 lumens
Efficiency: N/A
Efficacy: 127.8 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

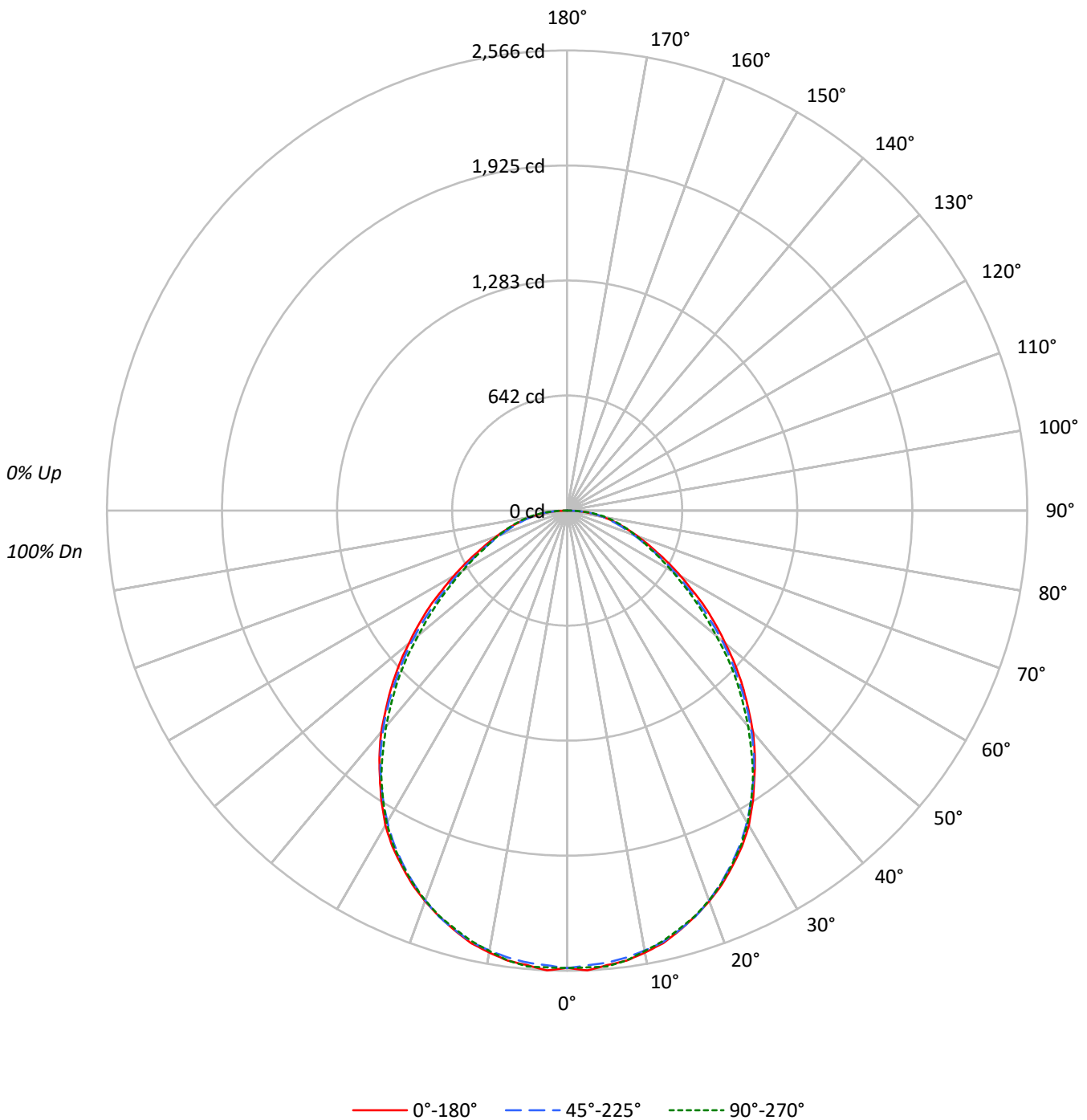
Input Watts (W): 45.942
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3432	3432	3432
5°	3437	3417	3447
10°	3419	3404	3407
15°	3376	3372	3364
20°	3319	3312	3312
25°	3242	3224	3231
30°	3148	3116	3125
35°	2990	2976	2968
40°	2831	2806	2757
45°	2632	2586	2535
50°	2411	2358	2269
55°	2202	2102	2031
60°	1962	1868	1819
65°	1766	1673	1650
70°	1639	1539	1601
75°	1568	1499	1625
80°	1567	1567	1736
85°	1627	1646	1832



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.9	4.1
10°-20°	681.7	11.6
20°-30°	1000.5	17.0
30°-40°	1131.1	19.3
40°-50°	1045.4	17.8
50°-60°	805.4	13.7
60°-70°	533.3	9.1
70°-80°	317.5	5.4
80°-90°	116.3	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°	1923.0	32.7
0°-40°	3054.1	52.0
0°-60°	4904.9	83.5
0°-90°	5872.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5872.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2551	2551	2551	2551	2551	
5°	2545	2545	2530	2531	2552	242
15°	2424	2419	2421	2420	2415	683
25°	2184	2178	2172	2169	2176	1005
35°	1820	1818	1812	1803	1807	1139
45°	1383	1373	1359	1335	1332	1065
55°	939	919	896	872	866	837
65°	555	546	526	521	518	556
75°	302	294	288	302	312	322
85°	105	99	107	118	119	112
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2550.7	2550.7	2550.7	2550.7	2550.7
2.5°	2566.4	2553.1	2538.5	2538.5	2549.4
5°	2544.6	2544.6	2530.1	2531.3	2551.9
7.5°	2531.3	2524.0	2514.3	2514.3	2530.1
10°	2502.2	2496.2	2491.3	2488.9	2493.7
12.5°	2470.7	2461.0	2464.7	2461.0	2459.8
15°	2423.5	2418.6	2421.1	2419.9	2415.0
17.5°	2372.6	2370.2	2375.0	2366.6	2370.2
20°	2318.1	2310.9	2313.3	2308.4	2313.3
22.5°	2256.4	2251.5	2245.5	2239.4	2249.1
25°	2183.7	2177.6	2171.6	2169.1	2176.4
27.5°	2111.0	2101.3	2092.8	2090.4	2101.3
30°	2026.2	2015.3	2005.6	2003.2	2011.7
32.5°	1925.7	1923.3	1911.2	1906.3	1910.0
35°	1820.3	1817.9	1811.9	1803.4	1807.0
37.5°	1719.8	1718.6	1710.1	1695.6	1685.9
40°	1612.0	1603.5	1597.5	1576.9	1569.6
42.5°	1493.3	1490.9	1480.0	1457.0	1448.5
45°	1383.1	1373.4	1358.9	1334.7	1332.3
47.5°	1269.3	1256.0	1242.6	1212.3	1211.1
50°	1151.8	1142.1	1126.4	1096.1	1084.0
52.5°	1042.8	1029.5	1007.7	978.6	972.5
55°	938.6	919.3	896.2	872.0	866.0
57.5°	827.2	818.7	790.9	771.5	764.2
60°	729.1	721.8	694.0	675.8	675.8
62.5°	640.7	629.8	605.6	593.5	593.5
65°	554.7	546.2	525.6	520.8	518.4
67.5°	480.8	469.9	455.4	454.2	460.2
70°	416.6	403.3	391.2	403.3	406.9
72.5°	356.1	347.6	336.7	352.4	359.7
75°	301.6	294.3	288.3	301.6	312.5
77.5°	251.9	244.6	244.6	259.2	268.9
80°	202.3	197.4	202.3	214.4	224.1
82.5°	155.0	151.4	157.4	169.6	175.6
85°	105.4	99.3	106.6	117.5	118.7
87.5°	49.7	48.4	53.3	60.6	59.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)