

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: P293011

Luminaire Tested: **24GR-LD5-64-F1-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293011
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-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6387.0 lumens
Efficiency: N/A
Efficacy: 137.4 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

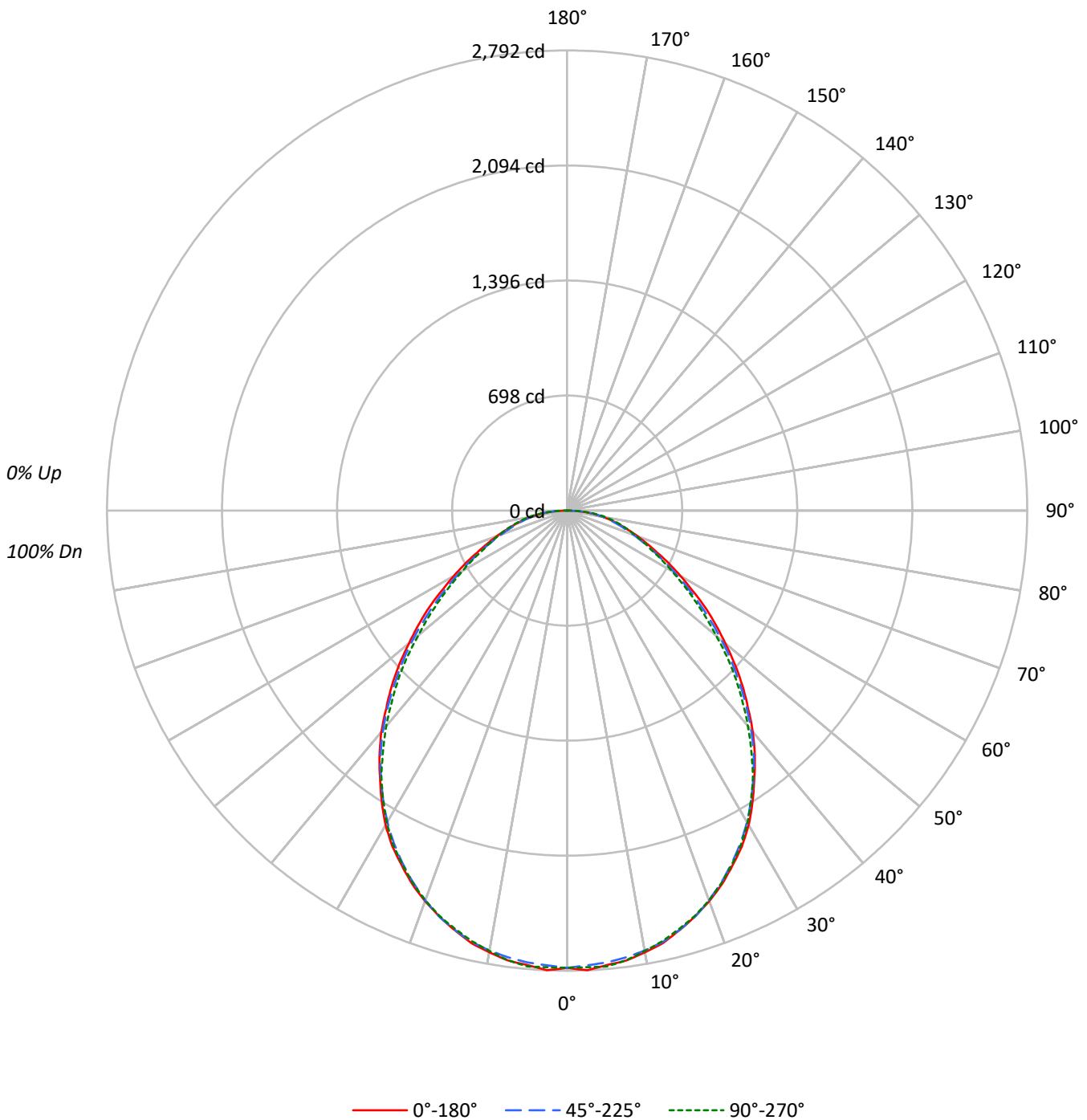
Input Watts (W): 46.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3733	3733	3733
5°	3738	3717	3749
10°	3719	3702	3706
15°	3672	3668	3659
20°	3610	3603	3603
25°	3526	3507	3514
30°	3424	3389	3400
35°	3252	3237	3228
40°	3080	3052	2999
45°	2863	2813	2757
50°	2622	2564	2468
55°	2395	2287	2209
60°	2134	2031	1978
65°	1921	1820	1795
70°	1783	1674	1741
75°	1705	1630	1767
80°	1705	1705	1888
85°	1769	1789	1993



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.0	4.1
10°-20°	741.5	11.6
20°-30°	1088.2	17.0
30°-40°	1230.3	19.3
40°-50°	1137.0	17.8
50°-60°	876.0	13.7
60°-70°	580.1	9.1
70°-80°	345.3	5.4
80°-90°	126.5	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°	2091.7	32.7
0°-40°	3322.0	52.0
0°-60°	5335.1	83.5
0°-90°	6387.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6387.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2774	2774	2774	2774	2774	
5°	2768	2768	2752	2753	2776	263
15°	2636	2631	2633	2632	2627	743
25°	2375	2369	2362	2359	2367	1094
35°	1980	1977	1971	1962	1966	1239
45°	1504	1494	1478	1452	1449	1159
55°	1021	1000	975	948	942	911
65°	603	594	572	566	564	605
75°	328	320	314	328	340	350
85°	115	108	116	128	129	122
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2774.4	2774.4	2774.4	2774.4	2774.4
2.5°	2791.5	2777.0	2761.2	2761.2	2773.0
5°	2767.8	2767.8	2752.0	2753.3	2775.7
7.5°	2753.3	2745.4	2734.8	2734.8	2752.0
10°	2721.7	2715.1	2709.8	2707.2	2712.4
12.5°	2687.4	2676.9	2680.8	2676.9	2675.6
15°	2636.0	2630.8	2633.4	2632.1	2626.8
17.5°	2580.7	2578.1	2583.3	2574.1	2578.1
20°	2521.4	2513.5	2516.2	2510.9	2516.2
22.5°	2454.2	2449.0	2442.4	2435.8	2446.3
25°	2375.2	2368.6	2362.0	2359.4	2367.3
27.5°	2296.2	2285.6	2276.4	2273.8	2285.6
30°	2203.9	2192.1	2181.5	2178.9	2188.1
32.5°	2094.6	2092.0	2078.8	2073.5	2077.5
35°	1980.0	1977.4	1970.8	1961.5	1965.5
37.5°	1870.7	1869.3	1860.1	1844.3	1833.8
40°	1753.4	1744.2	1737.6	1715.2	1707.3
42.5°	1624.3	1621.7	1609.8	1584.8	1575.6
45°	1504.4	1493.9	1478.1	1451.7	1449.1
47.5°	1380.6	1366.1	1351.6	1318.7	1317.4
50°	1252.8	1242.3	1225.1	1192.2	1179.0
52.5°	1134.2	1119.8	1096.0	1064.4	1057.8
55°	1021.0	999.9	974.8	948.5	941.9
57.5°	899.8	890.5	860.2	839.2	831.3
60°	793.1	785.1	754.8	735.1	735.1
62.5°	696.9	685.0	658.7	645.5	645.5
65°	603.4	594.1	571.7	566.5	563.8
67.5°	523.0	511.1	495.3	494.0	500.6
70°	453.2	438.7	425.5	438.7	442.6
72.5°	387.3	378.1	366.2	383.4	391.3
75°	328.0	320.1	313.5	328.0	339.9
77.5°	274.0	266.1	266.1	281.9	292.5
80°	220.0	214.7	220.0	233.2	243.7
82.5°	168.6	164.7	171.3	184.4	191.0
85°	114.6	108.0	115.9	127.8	129.1
87.5°	54.0	52.7	58.0	65.9	64.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)