

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: P293386

Luminaire Tested: **24GR-LD5-64-F125-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-64-F125-UNV-L92765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5014.0 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

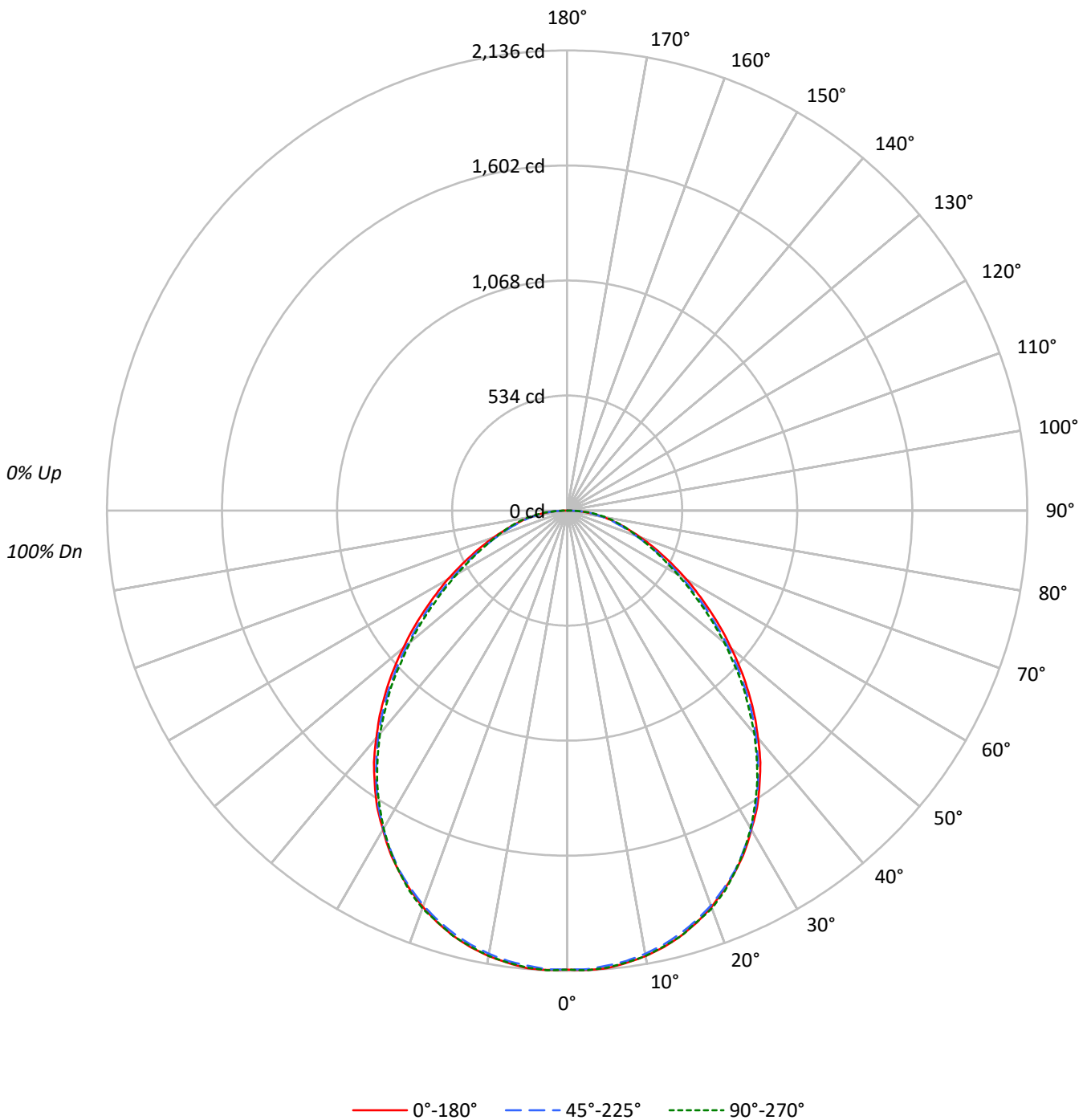
Input Watts (W): 45.849
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2867	2867	2867
5°	2880	2864	2876
10°	2869	2855	2867
15°	2846	2831	2848
20°	2804	2793	2813
25°	2744	2737	2742
30°	2657	2652	2646
35°	2557	2537	2527
40°	2420	2392	2373
45°	2264	2222	2195
50°	2080	2024	1990
55°	1897	1827	1774
60°	1723	1630	1588
65°	1552	1465	1440
70°	1421	1329	1366
75°	1328	1267	1361
80°	1318	1293	1421
85°	1343	1355	1548



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.7	4.0
10°-20°	573.4	11.4
20°-30°	847.0	16.9
30°-40°	963.0	19.2
40°-50°	899.3	17.9
50°-60°	699.4	13.9
60°-70°	464.0	9.3
70°-80°	268.5	5.4
80°-90°	97.6	1.9
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°	1622.1	32.4
0°-40°	2585.1	51.6
0°-60°	4183.8	83.4
0°-90°	5014.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5014.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2131	2131	2131	2131	2131	
5°	2132	2122	2121	2125	2129	202
15°	2043	2033	2032	2031	2045	576
25°	1848	1840	1843	1839	1847	850
35°	1556	1549	1545	1534	1538	972
45°	1190	1180	1168	1153	1154	917
55°	809	797	779	759	756	725
65°	488	473	460	451	452	487
75°	256	249	244	255	262	273
85°	87	85	88	100	100	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2130.9	2130.9	2130.9	2130.9	2130.9
2.5°	2134.1	2127.8	2130.9	2128.6	2135.7
5°	2132.5	2121.5	2120.8	2124.7	2129.4
7.5°	2117.6	2105.9	2108.2	2108.2	2116.1
10°	2099.6	2087.8	2089.4	2090.2	2098.8
12.5°	2075.3	2063.5	2064.3	2063.5	2072.2
15°	2043.2	2033.0	2032.2	2031.4	2044.7
17.5°	2004.0	1989.9	1994.6	1995.4	2002.4
20°	1958.5	1947.6	1950.7	1949.9	1964.8
22.5°	1904.5	1896.6	1899.0	1897.4	1911.5
25°	1848.0	1840.2	1843.3	1839.4	1847.2
27.5°	1784.5	1779.1	1775.9	1773.6	1779.1
30°	1710.1	1707.0	1707.0	1696.8	1703.0
32.5°	1639.6	1629.4	1629.4	1625.4	1621.5
35°	1556.5	1548.6	1544.7	1533.8	1538.5
37.5°	1473.4	1455.4	1453.8	1445.2	1445.2
40°	1377.8	1367.6	1362.1	1352.7	1351.1
42.5°	1286.9	1276.7	1267.3	1251.6	1248.5
45°	1189.7	1180.3	1167.8	1152.9	1153.6
47.5°	1093.3	1080.0	1068.2	1050.2	1047.8
50°	993.8	984.4	967.1	951.4	950.7
52.5°	900.5	885.6	869.9	851.1	851.1
55°	808.8	797.0	779.0	758.6	756.3
57.5°	721.0	710.1	689.7	674.8	670.9
60°	640.3	624.6	605.8	593.3	590.1
62.5°	559.6	545.5	531.4	518.8	518.0
65°	487.5	472.6	460.0	451.4	452.2
67.5°	422.4	409.9	395.8	393.4	394.2
70°	361.3	348.0	337.8	343.3	347.2
72.5°	303.3	296.2	289.2	297.0	302.5
75°	255.5	249.2	243.7	254.7	261.8
77.5°	211.6	206.9	206.1	215.5	221.8
80°	170.1	164.6	166.9	177.9	183.4
82.5°	129.3	125.4	126.2	139.5	143.4
85°	87.0	85.4	87.8	99.5	100.3
87.5°	46.2	46.2	47.8	54.9	52.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)