

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: P293125

Luminaire Tested: **24GR-LD5-56-F1-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293125
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-LD5-56-F1-UNV-L92765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4416.0 lumens
Efficiency: N/A
Efficacy: 113.6 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

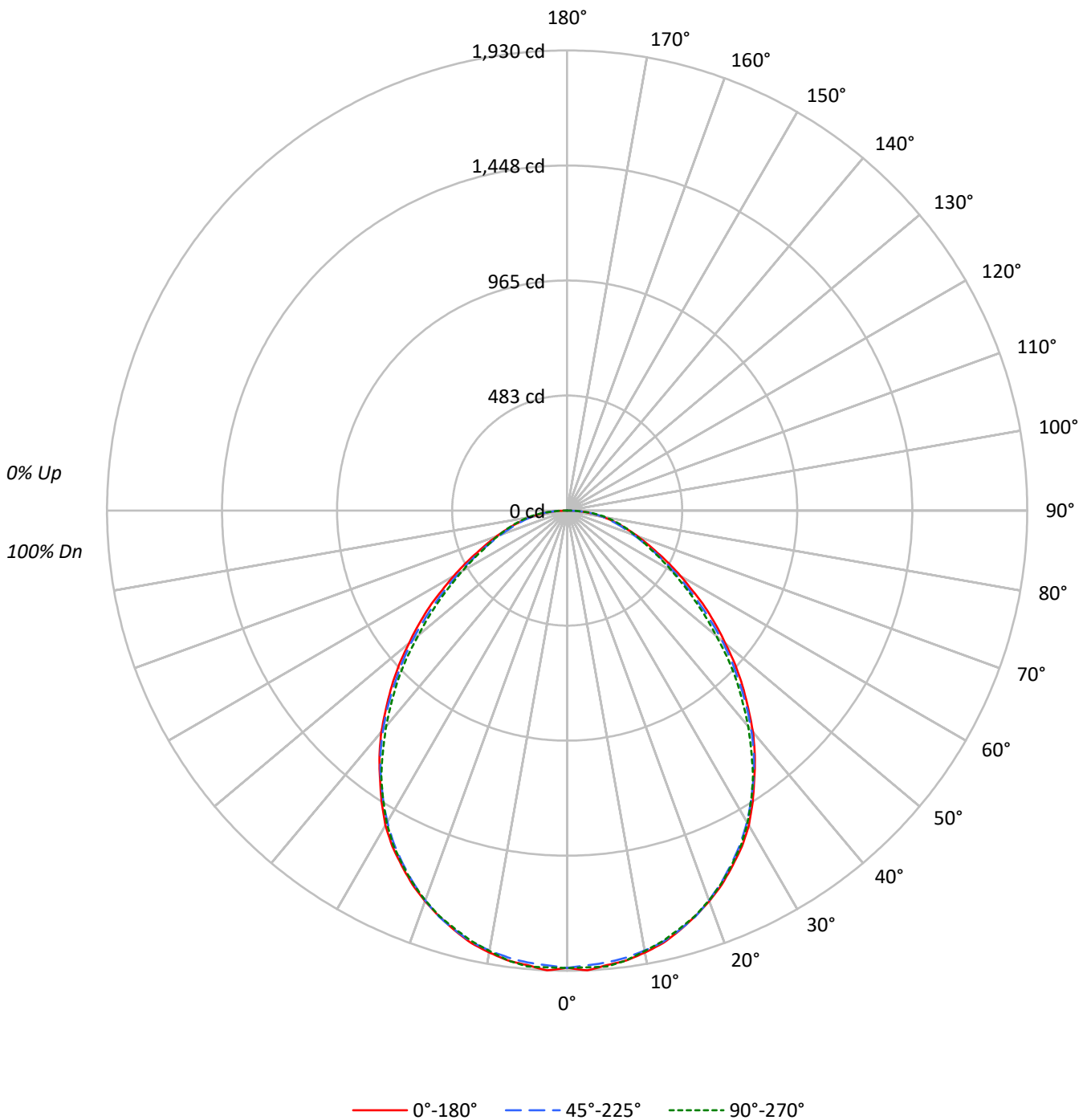
Input Watts (W): 38.874
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2581	2581	2581
5°	2585	2570	2592
10°	2571	2560	2562
15°	2539	2536	2530
20°	2496	2491	2491
25°	2438	2424	2430
30°	2367	2343	2350
35°	2249	2238	2232
40°	2129	2110	2073
45°	1979	1945	1906
50°	1813	1773	1706
55°	1656	1581	1528
60°	1475	1404	1368
65°	1328	1259	1241
70°	1233	1157	1204
75°	1179	1127	1222
80°	1179	1179	1306
85°	1223	1238	1379



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.2	4.1
10°-20°	512.6	11.6
20°-30°	752.4	17.0
30°-40°	850.6	19.3
40°-50°	786.2	17.8
50°-60°	605.7	13.7
60°-70°	401.1	9.1
70°-80°	238.8	5.4
80°-90°	87.5	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°	1446.2	32.7
0°-40°	2296.8	52.0
0°-60°	3688.7	83.5
0°-90°	4416.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4416.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1918	1918	1918	1918	1918	
5°	1914	1914	1903	1904	1919	182
15°	1823	1819	1821	1820	1816	514
25°	1642	1638	1633	1631	1637	756
35°	1369	1367	1363	1356	1359	857
45°	1040	1033	1022	1004	1002	801
55°	706	691	674	656	651	630
65°	417	411	395	392	390	418
75°	227	221	217	227	235	242
85°	79	75	80	88	89	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1918.2	1918.2	1918.2	1918.2	1918.2
2.5°	1930.0	1920.0	1909.1	1909.1	1917.3
5°	1913.7	1913.7	1902.7	1903.6	1919.1
7.5°	1903.6	1898.2	1890.9	1890.9	1902.7
10°	1881.8	1877.2	1873.6	1871.8	1875.4
12.5°	1858.1	1850.8	1853.5	1850.8	1849.9
15°	1822.6	1818.9	1820.7	1819.8	1816.2
17.5°	1784.3	1782.5	1786.1	1779.8	1782.5
20°	1743.3	1737.9	1739.7	1736.0	1739.7
22.5°	1696.9	1693.2	1688.7	1684.1	1691.4
25°	1642.2	1637.7	1633.1	1631.3	1636.8
27.5°	1587.6	1580.3	1573.9	1572.1	1580.3
30°	1523.8	1515.6	1508.3	1506.5	1512.9
32.5°	1448.2	1446.4	1437.3	1433.6	1436.4
35°	1369.0	1367.2	1362.6	1356.2	1359.0
37.5°	1293.4	1292.5	1286.1	1275.2	1267.9
40°	1212.3	1205.9	1201.4	1185.9	1180.4
42.5°	1123.1	1121.2	1113.0	1095.7	1089.4
45°	1040.2	1032.9	1022.0	1003.7	1001.9
47.5°	954.5	944.5	934.5	911.7	910.8
50°	866.2	858.9	847.1	824.3	815.2
52.5°	784.2	774.2	757.8	735.9	731.4
55°	705.9	691.3	674.0	655.8	651.2
57.5°	622.1	615.7	594.8	580.2	574.7
60°	548.3	542.9	521.9	508.2	508.2
62.5°	481.8	473.6	455.4	446.3	446.3
65°	417.2	410.8	395.3	391.7	389.8
67.5°	361.6	353.4	342.5	341.6	346.1
70°	313.3	303.3	294.2	303.3	306.0
72.5°	267.8	261.4	253.2	265.1	270.5
75°	226.8	221.3	216.8	226.8	235.0
77.5°	189.5	184.0	184.0	194.9	202.2
80°	152.1	148.5	152.1	161.2	168.5
82.5°	116.6	113.9	118.4	127.5	132.1
85°	79.2	74.7	80.2	88.4	89.3
87.5°	37.3	36.4	40.1	45.5	44.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)