

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: P293480

Luminaire Tested: **24GR-LD5-38-A-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-38-A-UNV-L82765-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3955.0 lumens
Efficiency: N/A
Efficacy: 153.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

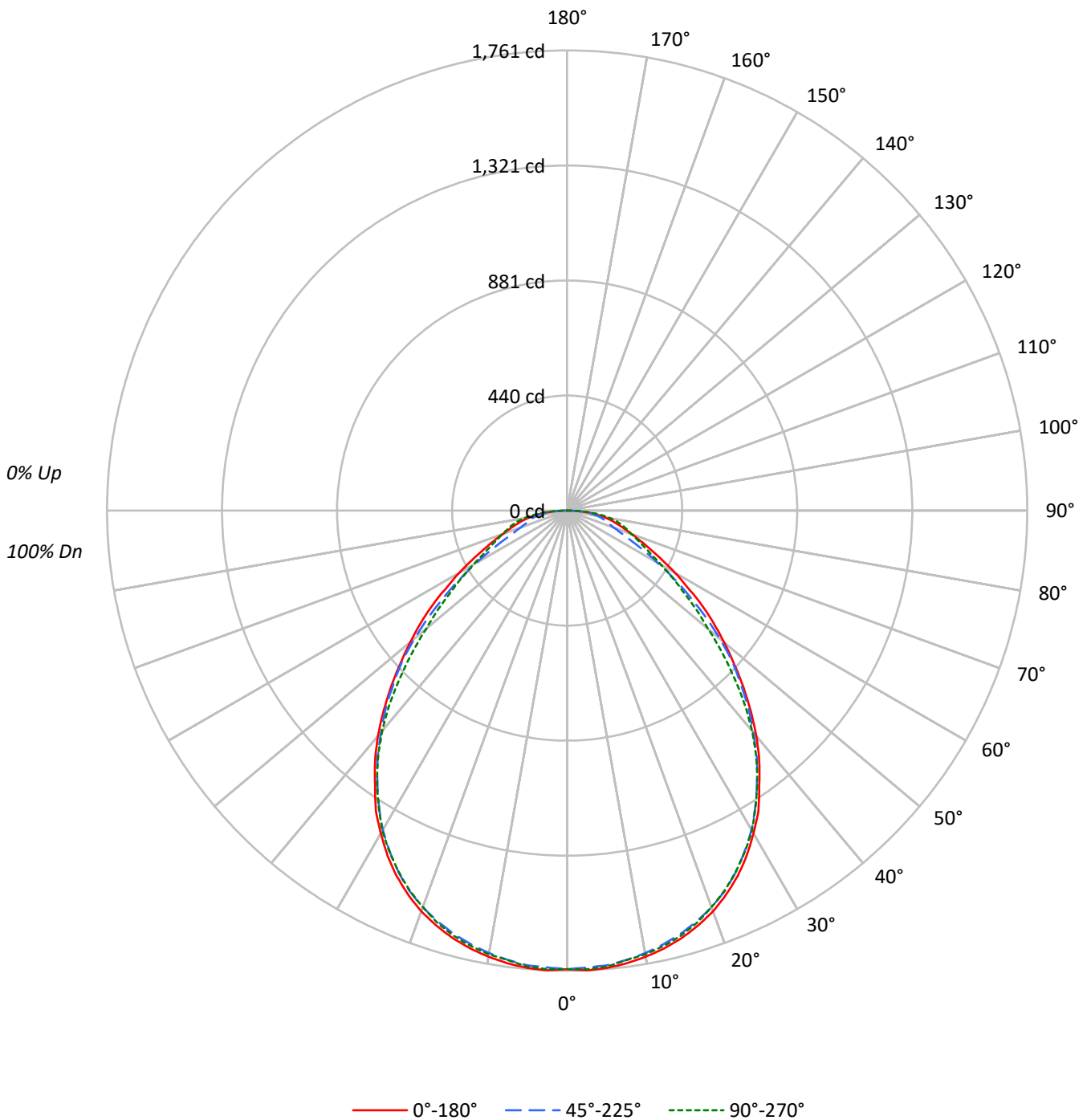
Input Watts (W): 25.854
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63					63			
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2361	2361	2361
5°	2373	2359	2365
10°	2368	2349	2356
15°	2359	2335	2346
20°	2337	2313	2312
25°	2291	2267	2265
30°	2216	2193	2198
35°	2105	2080	2083
40°	1979	1945	1933
45°	1814	1789	1718
50°	1640	1595	1475
55°	1472	1340	1271
60°	1289	1079	1118
65°	1124	848	1029
70°	1029	740	1029
75°	1029	788	1134
80°	1117	928	1292
85°	1226	1047	1386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.2	4.2
10°-20°	474.2	12.0
20°-30°	703.2	17.8
30°-40°	793.3	20.1
40°-50°	718.5	18.2
50°-60°	518.3	13.1
60°-70°	309.5	7.8
70°-80°	191.3	4.8
80°-90°	80.6	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°	1343.6	34.0
0°-40°	2136.8	54.0
0°-60°	3373.7	85.3
0°-90°	3955.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3955.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1755	1755	1755	1755	1755	
5°	1757	1754	1747	1745	1751	167
15°	1694	1683	1677	1677	1684	477
25°	1543	1535	1527	1521	1526	709
35°	1281	1279	1267	1267	1268	802
45°	953	947	940	917	903	735
55°	628	608	571	543	542	560
65°	353	311	266	302	323	355
75°	198	172	152	189	218	211
85°	79	70	68	89	90	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1754.8	1754.8	1754.8	1754.8	1754.8
2.5°	1760.9	1756.0	1749.9	1753.6	1756.6
5°	1756.6	1754.2	1746.8	1745.0	1751.1
7.5°	1747.5	1741.3	1734.6	1737.7	1735.2
10°	1733.4	1727.9	1719.3	1720.0	1724.2
12.5°	1716.3	1709.6	1700.4	1702.9	1706.5
15°	1693.7	1683.3	1676.6	1677.2	1683.9
17.5°	1665.0	1657.0	1648.5	1650.3	1653.4
20°	1632.0	1627.7	1615.5	1611.8	1614.9
22.5°	1590.4	1582.5	1575.8	1573.9	1574.5
25°	1543.4	1534.8	1526.9	1521.4	1525.7
27.5°	1488.4	1481.1	1470.7	1468.8	1472.5
30°	1426.1	1420.6	1411.4	1409.0	1414.5
32.5°	1362.5	1353.4	1340.5	1340.5	1341.8
35°	1281.3	1279.4	1266.6	1267.2	1268.4
37.5°	1207.9	1199.4	1192.1	1184.7	1188.4
40°	1126.7	1116.9	1107.1	1102.2	1100.4
42.5°	1039.3	1032.0	1027.7	1010.0	1005.7
45°	953.2	947.0	940.3	917.1	903.1
47.5°	865.2	864.0	858.5	817.5	803.5
50°	783.3	781.5	761.9	718.5	704.5
52.5°	705.7	693.5	667.8	625.1	622.6
55°	627.5	607.9	571.3	543.2	542.0
57.5°	545.0	521.8	484.5	469.2	477.2
60°	479.0	443.6	400.8	402.6	415.5
62.5°	410.6	370.9	328.7	347.0	362.3
65°	353.2	311.0	266.4	302.4	323.2
67.5°	303.1	264.0	221.2	269.5	289.6
70°	261.5	229.7	188.2	238.9	261.5
72.5°	228.5	199.2	166.8	214.5	240.7
75°	198.0	171.7	151.5	188.8	218.1
77.5°	171.7	146.0	136.9	166.8	195.5
80°	144.2	121.0	119.8	145.4	166.8
82.5°	112.4	96.5	96.5	121.6	134.4
85°	79.4	69.7	67.8	88.6	89.8
87.5°	40.9	39.1	35.4	46.4	46.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)