

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: P293478

Luminaire Tested: **24GR-LD5-38-A-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293478
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-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3802.0 lumens
Efficiency: N/A
Efficacy: 149.2 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

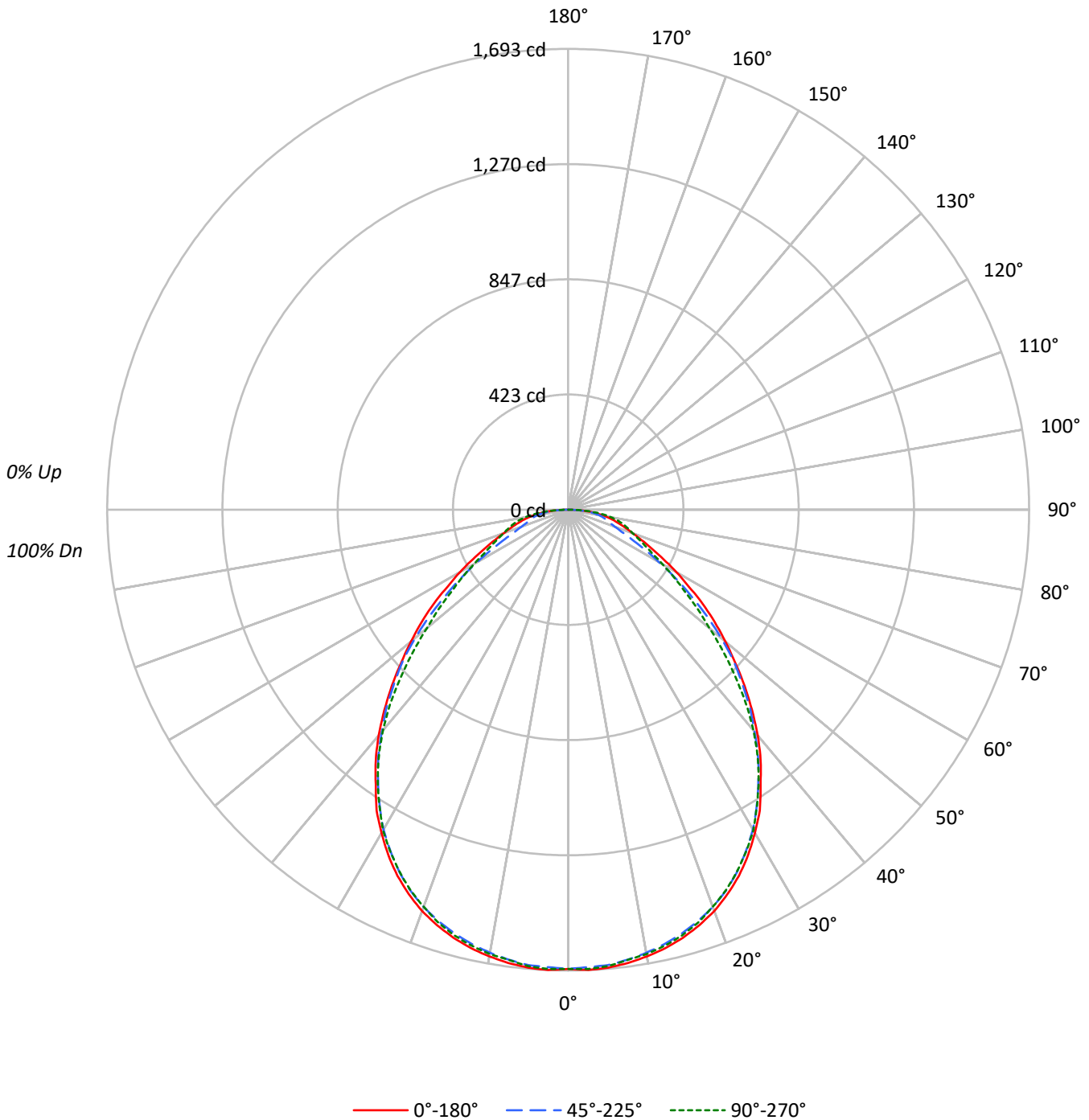
Input Watts (W): 25.482
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2270	2270	2270
5°	2281	2268	2274
10°	2277	2258	2265
15°	2268	2245	2255
20°	2246	2224	2223
25°	2203	2179	2177
30°	2130	2108	2112
35°	2023	2000	2003
40°	1902	1869	1858
45°	1744	1720	1652
50°	1576	1533	1418
55°	1415	1288	1222
60°	1239	1037	1075
65°	1081	815	989
70°	989	712	989
75°	989	757	1090
80°	1074	892	1242
85°	1179	1007	1332



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.7	4.2
10°-20°	455.9	12.0
20°-30°	676.0	17.8
30°-40°	762.6	20.1
40°-50°	690.7	18.2
50°-60°	498.3	13.1
60°-70°	297.5	7.8
70°-80°	183.9	4.8
80°-90°	77.5	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°	1291.6	34.0
0°-40°	2054.2	54.0
0°-60°	3243.1	85.3
0°-90°	3802.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3802.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1687	1687	1687	1687	1687	
5°	1689	1686	1679	1678	1683	160
15°	1628	1618	1612	1612	1619	459
25°	1484	1476	1468	1462	1467	682
35°	1232	1230	1218	1218	1219	771
45°	916	910	904	882	868	706
55°	603	584	549	522	521	538
65°	340	299	256	291	311	341
75°	190	165	146	182	210	203
85°	76	67	65	85	86	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1686.9	1686.9	1686.9	1686.9	1686.9
2.5°	1692.8	1688.1	1682.2	1685.7	1688.7
5°	1688.7	1686.3	1679.3	1677.5	1683.4
7.5°	1679.9	1674.0	1667.5	1670.5	1668.1
10°	1666.3	1661.1	1652.8	1653.4	1657.5
12.5°	1649.9	1643.4	1634.6	1637.0	1640.5
15°	1628.2	1618.2	1611.7	1612.3	1618.8
17.5°	1600.6	1592.9	1584.7	1586.5	1589.4
20°	1568.8	1564.7	1553.0	1549.5	1552.4
22.5°	1528.9	1521.3	1514.8	1513.0	1513.6
25°	1483.7	1475.5	1467.8	1462.5	1466.6
27.5°	1430.8	1423.8	1413.8	1412.0	1415.5
30°	1370.9	1365.6	1356.8	1354.5	1359.7
32.5°	1309.8	1301.0	1288.7	1288.7	1289.8
35°	1231.7	1229.9	1217.6	1218.2	1219.4
37.5°	1161.2	1153.0	1145.9	1138.9	1142.4
40°	1083.1	1073.7	1064.3	1059.6	1057.8
42.5°	999.1	992.1	987.9	970.9	966.8
45°	916.3	910.4	903.9	881.6	868.1
47.5°	831.7	830.5	825.2	785.9	772.4
50°	753.0	751.2	732.4	690.7	677.2
52.5°	678.4	666.7	642.0	600.9	598.5
55°	603.2	584.4	549.2	522.2	521.0
57.5°	523.9	501.6	465.8	451.1	458.7
60°	460.5	426.4	385.3	387.1	399.4
62.5°	394.7	356.5	316.0	333.6	348.3
65°	339.5	299.0	256.1	290.7	310.7
67.5°	291.3	253.7	212.6	259.0	278.4
70°	251.4	220.8	180.9	229.7	251.4
72.5°	219.7	191.5	160.3	206.2	231.4
75°	190.3	165.0	145.7	181.5	209.7
77.5°	165.0	140.4	131.6	160.3	188.0
80°	138.6	116.3	115.1	139.8	160.3
82.5°	108.1	92.8	92.8	116.9	129.2
85°	76.4	67.0	65.2	85.2	86.3
87.5°	39.4	37.6	34.1	44.6	44.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)