

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: P293479

Luminaire Tested: **24GR-LD5-38-A-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293479
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-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3886.0 lumens
Efficiency: N/A
Efficacy: 151.4 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

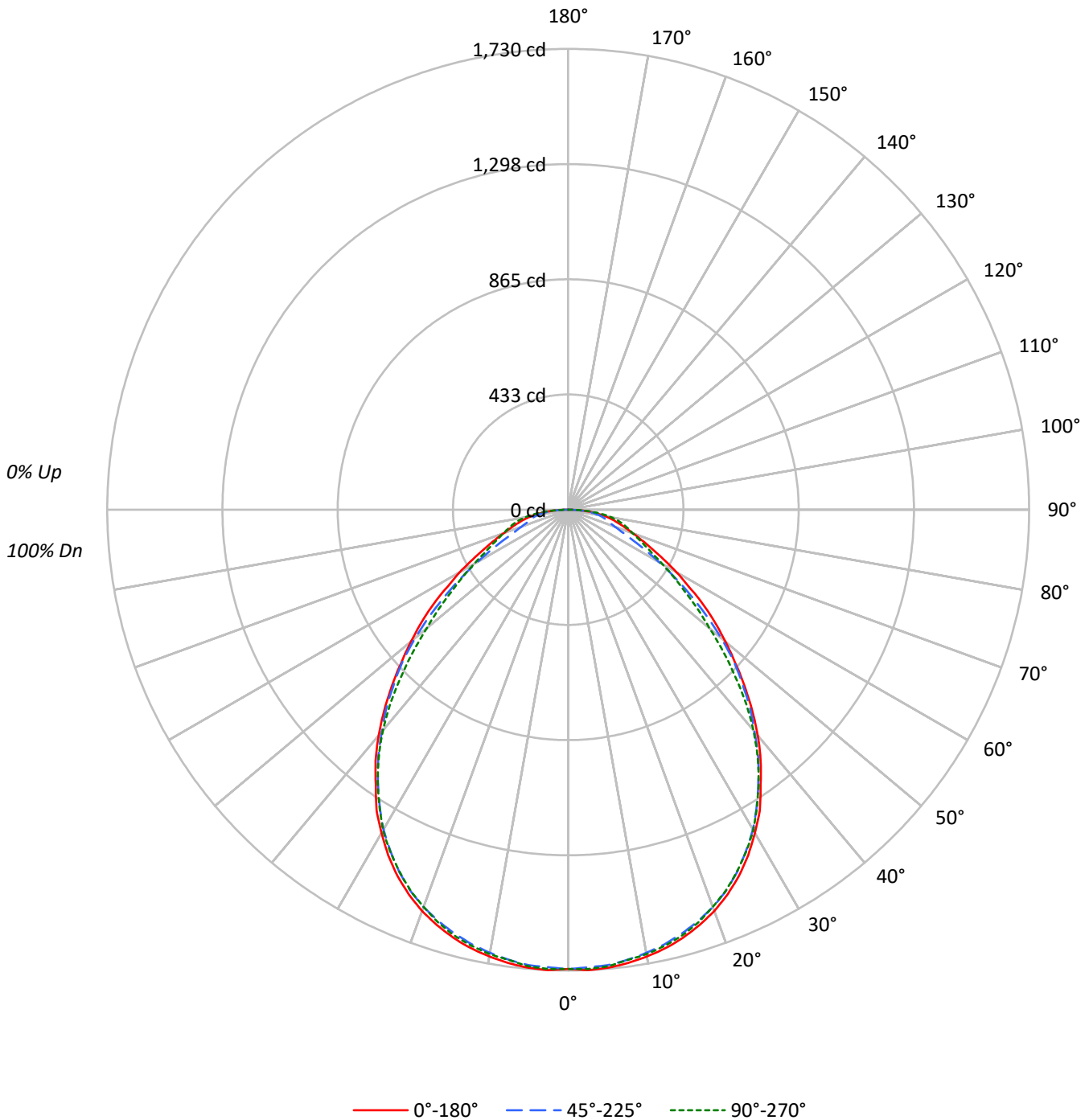
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2320	2320	2320
5°	2331	2318	2324
10°	2327	2308	2315
15°	2318	2295	2305
20°	2296	2273	2272
25°	2251	2227	2225
30°	2177	2155	2159
35°	2068	2044	2047
40°	1944	1911	1899
45°	1782	1758	1688
50°	1611	1567	1449
55°	1446	1317	1249
60°	1267	1060	1098
65°	1105	833	1011
70°	1011	727	1011
75°	1011	774	1114
80°	1098	912	1270
85°	1204	1028	1362



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.3	4.2
10°-20°	465.9	12.0
20°-30°	690.9	17.8
30°-40°	779.4	20.1
40°-50°	705.9	18.2
50°-60°	509.3	13.1
60°-70°	304.1	7.8
70°-80°	187.9	4.8
80°-90°	79.2	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°	1320.1	34.0
0°-40°	2099.6	54.0
0°-60°	3314.8	85.3
0°-90°	3886.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3886.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1724	1724	1724	1724	1724	
5°	1726	1724	1716	1715	1721	164
15°	1664	1654	1647	1648	1654	469
25°	1516	1508	1500	1495	1499	697
35°	1259	1257	1244	1245	1246	788
45°	936	930	924	901	887	722
55°	616	597	561	534	532	550
65°	347	306	262	297	318	349
75°	194	169	149	186	214	208
85°	78	68	67	87	88	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1724.2	1724.2	1724.2	1724.2	1724.2
2.5°	1730.2	1725.4	1719.4	1723.0	1726.0
5°	1726.0	1723.6	1716.4	1714.6	1720.6
7.5°	1717.0	1711.0	1704.4	1707.4	1705.0
10°	1703.2	1697.8	1689.4	1690.0	1694.2
12.5°	1686.4	1679.7	1670.7	1673.1	1676.7
15°	1664.1	1653.9	1647.3	1647.9	1654.5
17.5°	1635.9	1628.1	1619.7	1621.5	1624.5
20°	1603.5	1599.3	1587.3	1583.7	1586.7
22.5°	1562.7	1554.9	1548.3	1546.5	1547.1
25°	1516.5	1508.1	1500.2	1494.8	1499.0
27.5°	1462.4	1455.2	1445.0	1443.2	1446.8
30°	1401.2	1395.8	1386.8	1384.4	1389.8
32.5°	1338.8	1329.8	1317.1	1317.1	1318.3
35°	1258.9	1257.1	1244.5	1245.1	1246.3
37.5°	1186.9	1178.5	1171.3	1164.1	1167.7
40°	1107.0	1097.4	1087.8	1083.0	1081.2
42.5°	1021.2	1014.0	1009.8	992.4	988.2
45°	936.5	930.5	923.9	901.1	887.3
47.5°	850.1	848.9	843.5	803.3	789.4
50°	769.6	767.8	748.6	706.0	692.2
52.5°	693.4	681.4	656.2	614.1	611.7
55°	616.5	597.3	561.3	533.7	532.5
57.5°	535.5	512.7	476.1	461.1	468.9
60°	470.7	435.8	393.8	395.6	408.2
62.5°	403.4	364.4	323.0	341.0	356.0
65°	347.0	305.6	261.7	297.2	317.6
67.5°	297.8	259.3	217.3	264.7	284.6
70°	256.9	225.7	184.9	234.7	256.9
72.5°	224.5	195.7	163.9	210.7	236.5
75°	194.5	168.7	148.9	185.5	214.3
77.5°	168.7	143.5	134.5	163.9	192.1
80°	141.7	118.9	117.7	142.9	163.9
82.5°	110.5	94.9	94.9	119.5	132.1
85°	78.0	68.4	66.6	87.0	88.2
87.5°	40.2	38.4	34.8	45.6	45.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)