

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: P293357

Luminaire Tested: **24GR-LD5-38-F125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293357
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-LD5-38-F125-UNV-L92765-W2A1-U-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3628.0 lumens
Efficiency: N/A
Efficacy: 138.8 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

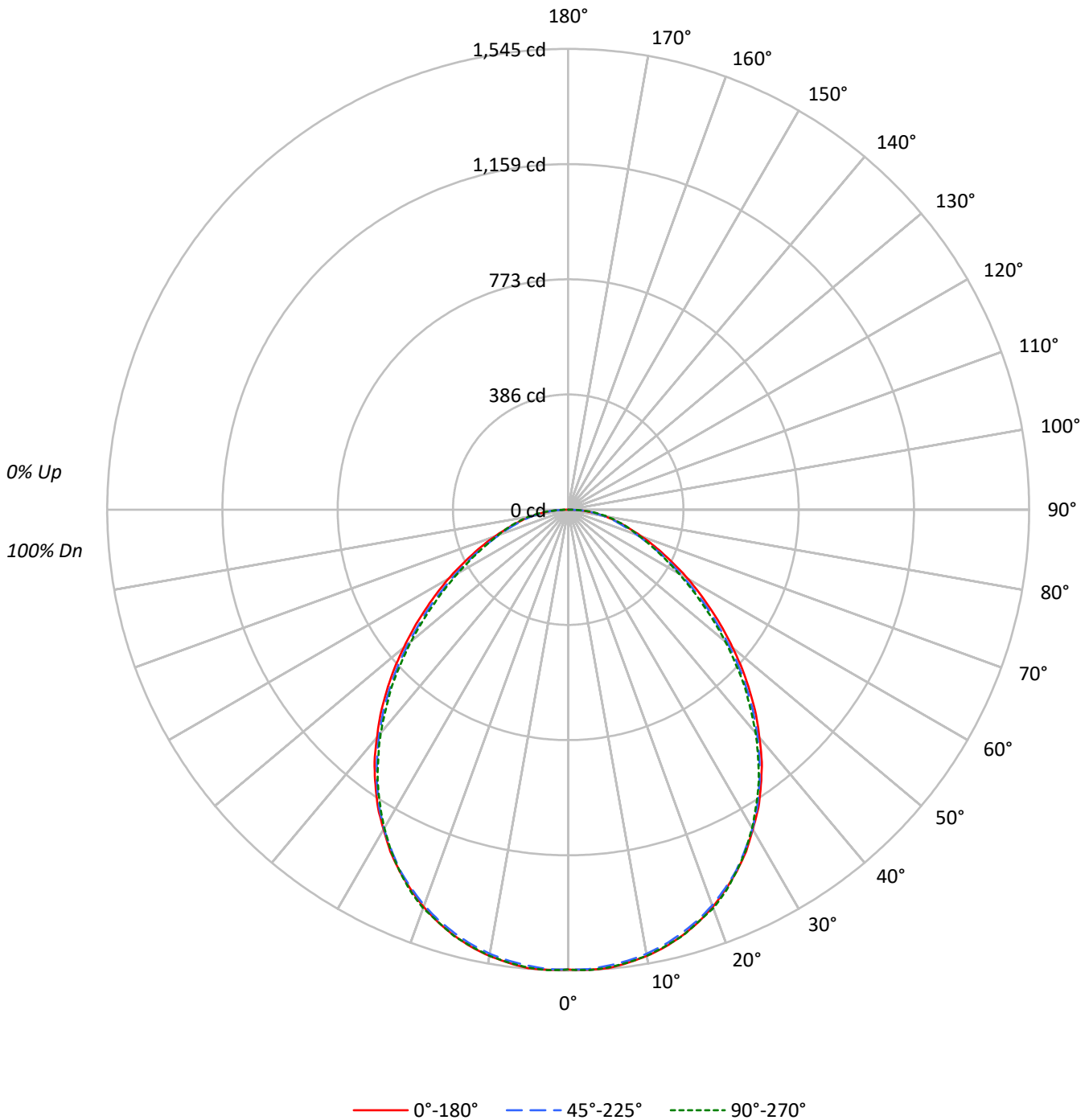
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	72	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°	2075	2075	2075
5°	2084	2073	2081
10°	2076	2065	2075
15°	2059	2048	2061
20°	2029	2021	2036
25°	1985	1980	1984
30°	1922	1919	1915
35°	1850	1836	1828
40°	1751	1731	1717
45°	1638	1608	1588
50°	1505	1465	1440
55°	1373	1322	1284
60°	1247	1180	1149
65°	1123	1060	1042
70°	1028	961	988
75°	961	917	985
80°	954	936	1028
85°	971	980	1121



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.9	4.0
10°-20°	414.9	11.4
20°-30°	612.9	16.9
30°-40°	696.8	19.2
40°-50°	650.7	17.9
50°-60°	506.1	13.9
60°-70°	335.8	9.3
70°-80°	194.3	5.4
80°-90°	70.7	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°	1173.7	32.4
0°-40°	1870.5	51.6
0°-60°	3027.3	83.4
0°-90°	3628.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3628.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1542	1542	1542	1542	1542	
5°	1543	1535	1534	1537	1541	146
15°	1478	1471	1470	1470	1480	417
25°	1337	1332	1334	1331	1337	615
35°	1126	1121	1118	1110	1113	703
45°	861	854	845	834	835	663
55°	585	577	564	549	547	525
65°	353	342	333	327	327	353
75°	185	180	176	184	189	198
85°	63	62	64	72	73	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1541.9	1541.9	1541.9	1541.9	1541.9
2.5°	1544.2	1539.6	1541.9	1540.2	1545.3
5°	1543.0	1535.1	1534.5	1537.4	1540.8
7.5°	1532.3	1523.8	1525.5	1525.5	1531.1
10°	1519.2	1510.7	1511.8	1512.4	1518.6
12.5°	1501.6	1493.1	1493.7	1493.1	1499.4
15°	1478.4	1471.0	1470.4	1469.9	1479.5
17.5°	1450.0	1439.8	1443.2	1443.8	1448.9
20°	1417.1	1409.2	1411.5	1410.9	1421.7
22.5°	1378.0	1372.3	1374.0	1372.9	1383.1
25°	1337.2	1331.5	1333.8	1330.9	1336.6
27.5°	1291.2	1287.3	1285.0	1283.3	1287.3
30°	1237.4	1235.1	1235.1	1227.7	1232.3
32.5°	1186.3	1179.0	1179.0	1176.1	1173.3
35°	1126.2	1120.6	1117.7	1109.8	1113.2
37.5°	1066.1	1053.1	1051.9	1045.7	1045.7
40°	996.9	989.6	985.6	978.8	977.7
42.5°	931.2	923.8	917.0	905.6	903.4
45°	860.8	854.0	845.0	834.2	834.7
47.5°	791.1	781.4	772.9	759.9	758.2
50°	719.1	712.3	699.8	688.4	687.9
52.5°	651.6	640.8	629.5	615.9	615.9
55°	585.2	576.7	563.7	548.9	547.2
57.5°	521.7	513.8	499.0	488.3	485.4
60°	463.3	452.0	438.4	429.3	427.0
62.5°	404.9	394.7	384.5	375.4	374.8
65°	352.7	342.0	332.9	326.6	327.2
67.5°	305.7	296.6	286.4	284.7	285.2
70°	261.4	251.8	244.4	248.4	251.2
72.5°	219.5	214.4	209.3	214.9	218.9
75°	184.9	180.3	176.4	184.3	189.4
77.5°	153.1	149.7	149.1	155.9	160.5
80°	123.1	119.1	120.8	128.7	132.7
82.5°	93.6	90.7	91.3	100.9	103.8
85°	62.9	61.8	63.5	72.0	72.6
87.5°	33.5	33.5	34.6	39.7	38.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)