

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: P293225

Luminaire Tested: **24GR-LD5-38-F125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293225
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-L82765-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3633.0 lumens
Efficiency: N/A
Efficacy: 144.1 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

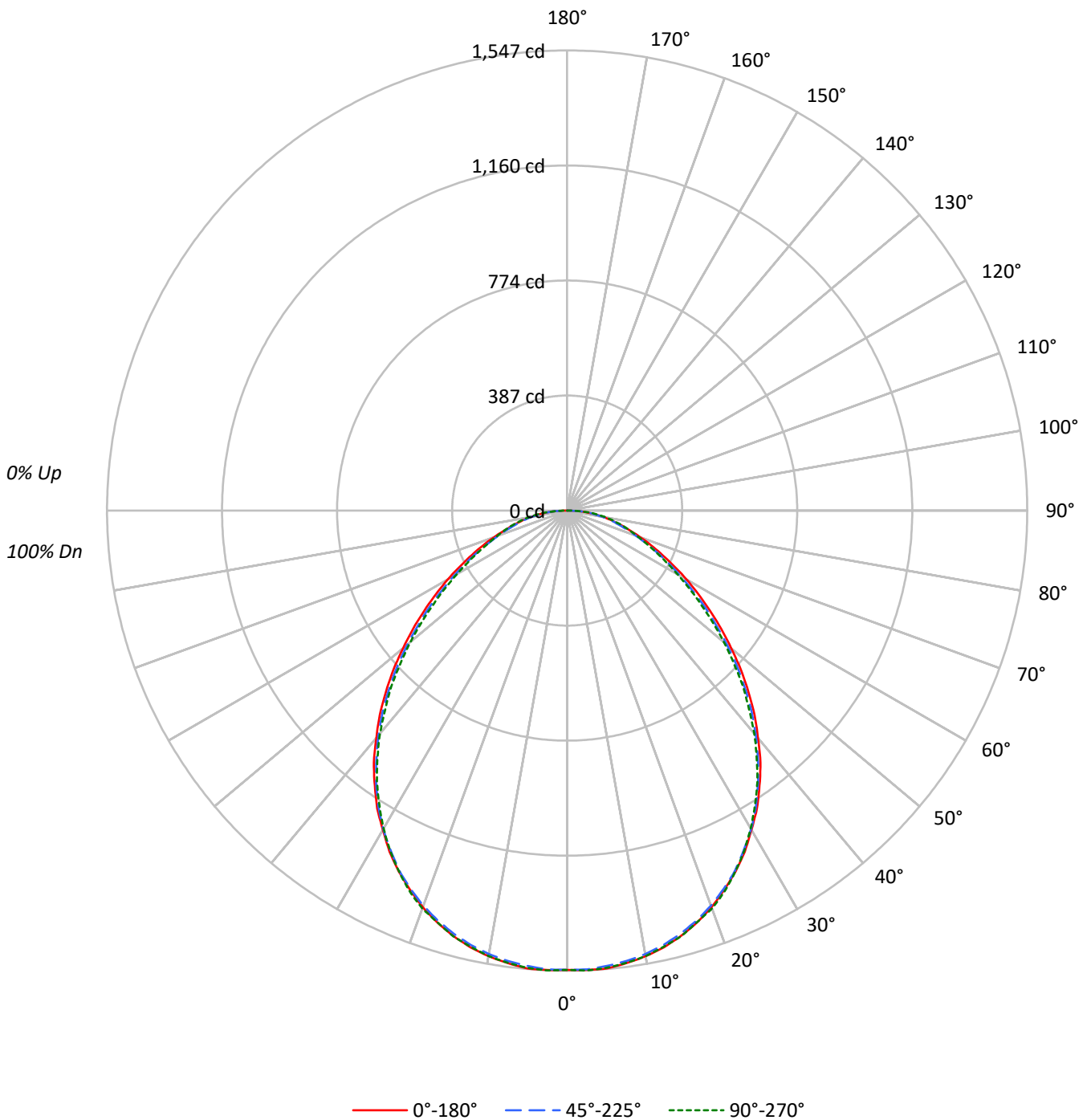
Input Watts (W): 25.203
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2077	2077	2077
5°	2087	2075	2084
10°	2078	2068	2078
15°	2062	2051	2064
20°	2032	2024	2038
25°	1988	1983	1987
30°	1925	1922	1917
35°	1852	1838	1831
40°	1753	1733	1720
45°	1640	1610	1591
50°	1507	1467	1442
55°	1375	1324	1285
60°	1248	1181	1151
65°	1124	1061	1043
70°	1030	963	990
75°	962	918	986
80°	955	938	1030
85°	973	982	1122



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.1	4.0
10°-20°	415.4	11.4
20°-30°	613.7	16.9
30°-40°	697.8	19.2
40°-50°	651.6	17.9
50°-60°	506.7	13.9
60°-70°	336.2	9.3
70°-80°	194.6	5.4
80°-90°	70.8	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°	1175.3	32.4
0°-40°	1873.1	51.6
0°-60°	3031.4	83.4
0°-90°	3633.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3633.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1544	1544	1544	1544	1544	
5°	1545	1537	1537	1540	1543	147
15°	1480	1473	1472	1472	1482	417
25°	1339	1333	1336	1333	1338	616
35°	1128	1122	1119	1111	1115	704
45°	862	855	846	835	836	664
55°	586	578	564	550	548	526
65°	353	342	333	327	328	353
75°	185	181	177	185	190	198
85°	63	62	64	72	73	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1544.0	1544.0	1544.0	1544.0	1544.0
2.5°	1546.3	1541.8	1544.0	1542.3	1547.4
5°	1545.2	1537.2	1536.6	1539.5	1542.9
7.5°	1534.4	1525.9	1527.6	1527.6	1533.2
10°	1521.3	1512.8	1513.9	1514.5	1520.7
12.5°	1503.7	1495.2	1495.8	1495.2	1501.4
15°	1480.4	1473.0	1472.5	1471.9	1481.6
17.5°	1452.0	1441.8	1445.2	1445.8	1450.9
20°	1419.1	1411.1	1413.4	1412.8	1423.6
22.5°	1379.9	1374.2	1375.9	1374.8	1385.0
25°	1339.0	1333.3	1335.6	1332.8	1338.5
27.5°	1293.0	1289.1	1286.8	1285.1	1289.1
30°	1239.1	1236.8	1236.8	1229.4	1234.0
32.5°	1188.0	1180.6	1180.6	1177.8	1174.9
35°	1127.8	1122.1	1119.3	1111.3	1114.7
37.5°	1067.6	1054.5	1053.4	1047.1	1047.1
40°	998.3	990.9	986.9	980.1	979.0
42.5°	932.4	925.1	918.2	906.9	904.6
45°	862.0	855.2	846.1	835.3	835.9
47.5°	792.2	782.5	774.0	760.9	759.2
50°	720.1	713.2	700.7	689.4	688.8
52.5°	652.5	641.7	630.3	616.7	616.7
55°	586.0	577.5	564.5	549.7	548.0
57.5°	522.4	514.5	499.7	488.9	486.1
60°	463.9	452.6	439.0	429.9	427.6
62.5°	405.5	395.2	385.0	375.9	375.4
65°	353.2	342.4	333.3	327.1	327.7
67.5°	306.1	297.0	286.8	285.1	285.6
70°	261.8	252.1	244.7	248.7	251.6
72.5°	219.8	214.7	209.5	215.2	219.2
75°	185.1	180.6	176.6	184.6	189.7
77.5°	153.3	149.9	149.3	156.2	160.7
80°	123.2	119.3	121.0	128.9	132.9
82.5°	93.7	90.9	91.4	101.1	103.9
85°	63.0	61.9	63.6	72.1	72.7
87.5°	33.5	33.5	34.6	39.8	38.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)