

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: P293299

Luminaire Tested: **24GR-LD5-38-F125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293299
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-L93050-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3532.0 lumens
Efficiency: N/A
Efficacy: 135.6 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

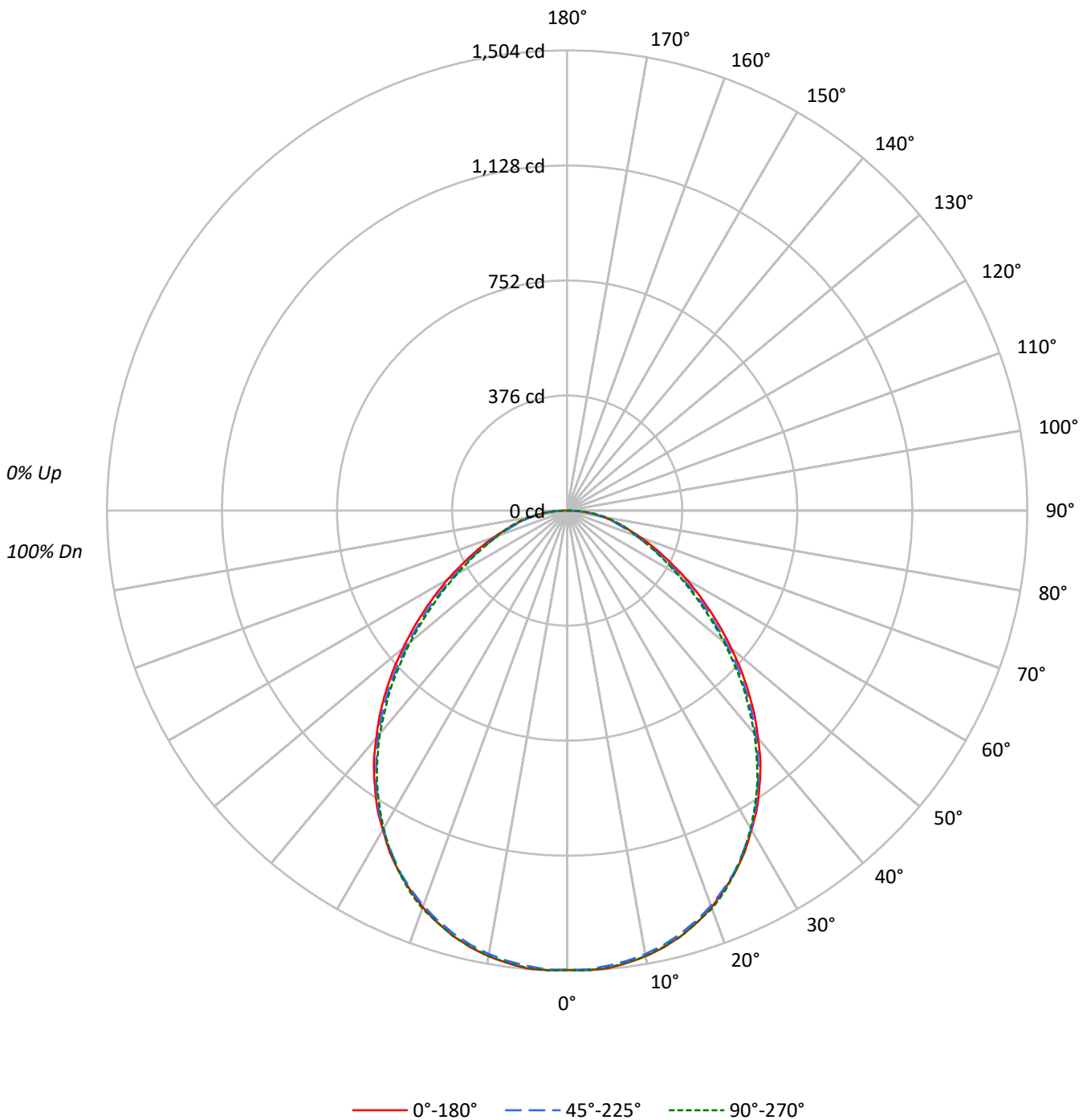
Input Watts (W): 26.049114
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	73	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°	2020	2020	2020
5°	2029	2018	2026
10°	2021	2011	2020
15°	2005	1994	2006
20°	1975	1967	1982
25°	1933	1928	1932
30°	1872	1868	1864
35°	1801	1787	1780
40°	1705	1685	1672
45°	1595	1565	1546
50°	1465	1426	1402
55°	1336	1287	1250
60°	1214	1149	1119
65°	1093	1032	1014
70°	1001	936	962
75°	936	893	959
80°	928	911	1001
85°	946	954	1091



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.1	4.0
10°-20°	403.9	11.4
20°-30°	596.7	16.9
30°-40°	678.4	19.2
40°-50°	633.5	17.9
50°-60°	492.7	13.9
60°-70°	326.9	9.3
70°-80°	189.2	5.4
80°-90°	68.8	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°	1142.6	32.4
0°-40°	1821.0	51.6
0°-60°	2947.1	83.4
0°-90°	3532.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3532.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1501	1501	1501	1501	1501	
5°	1502	1494	1494	1497	1500	143
15°	1439	1432	1432	1431	1440	405
25°	1302	1296	1298	1296	1301	599
35°	1096	1091	1088	1080	1084	685
45°	838	831	823	812	813	646
55°	570	562	549	534	533	511
65°	343	333	324	318	318	343
75°	180	176	172	179	184	193
85°	61	60	62	70	71	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1501.1	1501.1	1501.1	1501.1	1501.1
2.5°	1503.3	1498.9	1501.1	1499.4	1504.4
5°	1502.2	1494.5	1493.9	1496.7	1500.0
7.5°	1491.7	1483.4	1485.1	1485.1	1490.6
10°	1479.0	1470.7	1471.8	1472.4	1478.5
12.5°	1461.9	1453.6	1454.2	1453.6	1459.7
15°	1439.3	1432.1	1431.5	1431.0	1440.4
17.5°	1411.7	1401.7	1405.0	1405.6	1410.6
20°	1379.6	1371.9	1374.1	1373.6	1384.1
22.5°	1341.5	1336.0	1337.7	1336.6	1346.5
25°	1301.8	1296.3	1298.5	1295.7	1301.2
27.5°	1257.1	1253.2	1251.0	1249.4	1253.2
30°	1204.6	1202.4	1202.4	1195.2	1199.7
32.5°	1154.9	1147.8	1147.8	1145.0	1142.2
35°	1096.4	1090.9	1088.1	1080.4	1083.7
37.5°	1037.9	1025.2	1024.1	1018.0	1018.0
40°	970.6	963.4	959.5	952.9	951.8
42.5°	906.5	899.3	892.7	881.7	879.5
45°	838.1	831.4	822.6	812.1	812.7
47.5°	770.1	760.8	752.5	739.8	738.1
50°	700.0	693.4	681.3	670.2	669.7
52.5°	634.3	623.8	612.8	599.6	599.6
55°	569.7	561.5	548.8	534.4	532.8
57.5°	507.9	500.2	485.8	475.3	472.6
60°	451.0	440.0	426.8	417.9	415.7
62.5°	394.2	384.2	374.3	365.5	364.9
65°	343.4	332.9	324.1	318.0	318.5
67.5°	297.6	288.7	278.8	277.1	277.7
70°	254.5	245.1	237.9	241.8	244.6
72.5°	213.7	208.7	203.7	209.2	213.1
75°	180.0	175.6	171.7	179.4	184.4
77.5°	149.1	145.7	145.2	151.8	156.2
80°	119.8	115.9	117.6	125.3	129.2
82.5°	91.1	88.3	88.9	98.3	101.0
85°	61.3	60.2	61.8	70.1	70.7
87.5°	32.6	32.6	33.7	38.6	37.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)