

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: P293224

Luminaire Tested: **24GR-LD5-38-F125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293224
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-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3531.0 lumens
Efficiency: N/A
Efficacy: 139.1 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

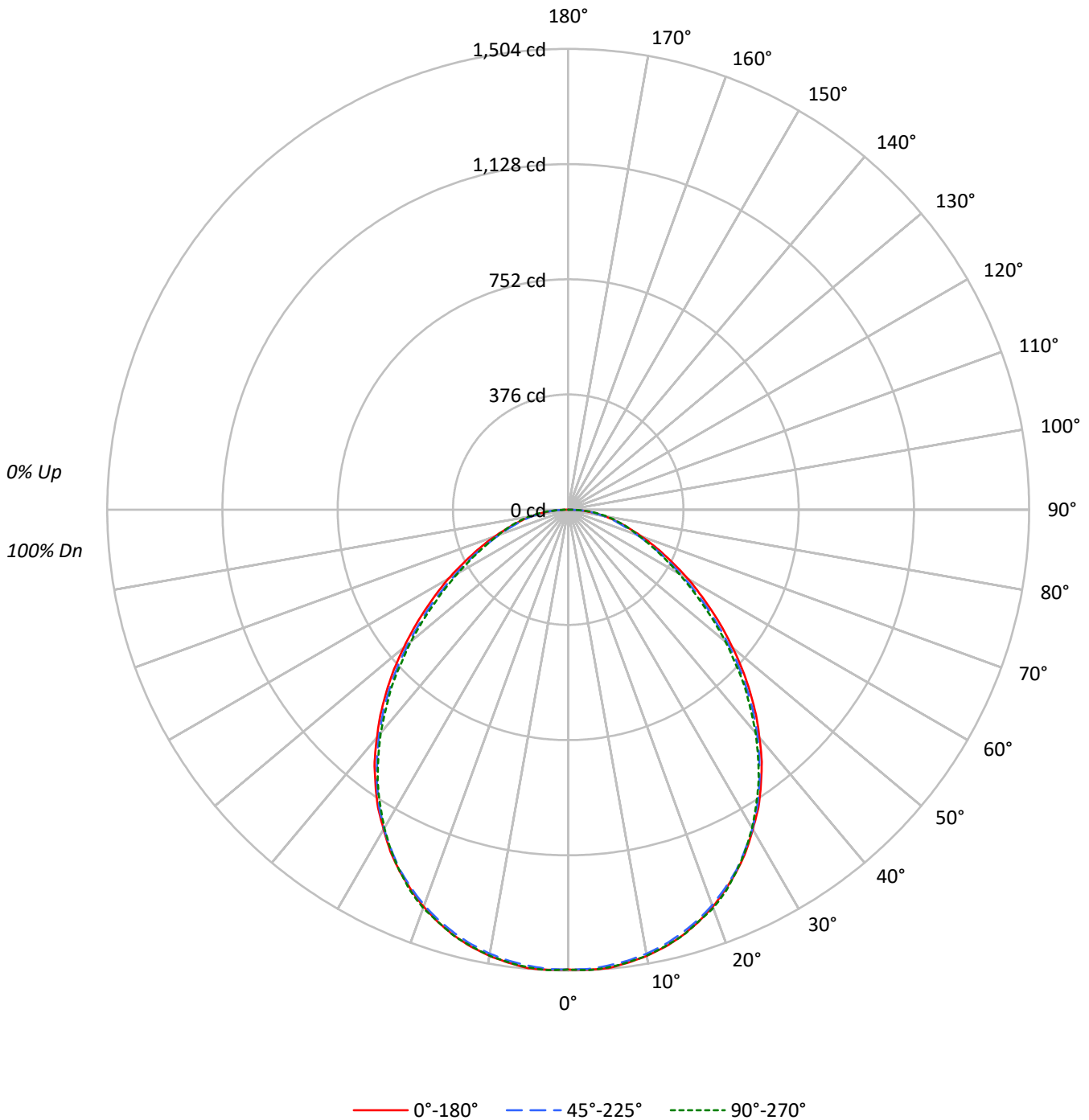
Input Watts (W): 25.389
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2019	2019	2019
5°	2028	2017	2025
10°	2020	2010	2019
15°	2004	1993	2006
20°	1975	1967	1981
25°	1932	1927	1931
30°	1871	1868	1863
35°	1800	1787	1780
40°	1704	1685	1671
45°	1594	1565	1546
50°	1465	1426	1401
55°	1336	1287	1249
60°	1213	1148	1118
65°	1093	1032	1014
70°	1001	936	962
75°	935	892	958
80°	928	911	1000
85°	946	954	1090



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.0	4.0
10°-20°	403.8	11.4
20°-30°	596.5	16.9
30°-40°	678.2	19.2
40°-50°	633.3	17.9
50°-60°	492.5	13.9
60°-70°	326.8	9.3
70°-80°	189.1	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°	1142.3	32.4
0°-40°	1820.5	51.6
0°-60°	2946.3	83.4
0°-90°	3531.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3531.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1501	1501	1501	1501	1501	
5°	1502	1494	1494	1496	1500	143
15°	1439	1432	1431	1431	1440	405
25°	1301	1296	1298	1295	1301	598
35°	1096	1091	1088	1080	1083	684
45°	838	831	822	812	812	646
55°	570	561	549	534	533	511
65°	343	333	324	318	318	343
75°	180	176	172	179	184	192
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°	1500.7	1500.7	1500.7	1500.7	1500.7
2.5°	1502.9	1498.5	1500.7	1499.0	1504.0
5°	1501.8	1494.1	1493.5	1496.3	1499.6
7.5°	1491.3	1483.0	1484.7	1484.7	1490.2
10°	1478.6	1470.3	1471.4	1472.0	1478.0
12.5°	1461.5	1453.2	1453.8	1453.2	1459.3
15°	1438.9	1431.7	1431.1	1430.6	1440.0
17.5°	1411.3	1401.3	1404.6	1405.2	1410.2
20°	1379.3	1371.5	1373.7	1373.2	1383.7
22.5°	1341.2	1335.7	1337.3	1336.2	1346.1
25°	1301.4	1295.9	1298.1	1295.4	1300.9
27.5°	1256.7	1252.9	1250.7	1249.0	1252.9
30°	1204.3	1202.1	1202.1	1194.9	1199.3
32.5°	1154.6	1147.4	1147.4	1144.7	1141.9
35°	1096.1	1090.6	1087.8	1080.1	1083.4
37.5°	1037.6	1024.9	1023.8	1017.7	1017.7
40°	970.3	963.1	959.2	952.6	951.5
42.5°	906.3	899.1	892.5	881.4	879.2
45°	837.8	831.2	822.4	811.9	812.4
47.5°	769.9	760.5	752.3	739.6	737.9
50°	699.8	693.2	681.1	670.0	669.5
52.5°	634.2	623.7	612.6	599.4	599.4
55°	569.6	561.3	548.6	534.3	532.6
57.5°	507.8	500.0	485.7	475.2	472.4
60°	450.9	439.9	426.6	417.8	415.6
62.5°	394.1	384.1	374.2	365.4	364.8
65°	343.3	332.8	324.0	317.9	318.5
67.5°	297.5	288.7	278.7	277.1	277.6
70°	254.4	245.1	237.9	241.7	244.5
72.5°	213.6	208.6	203.7	209.2	213.0
75°	179.9	175.5	171.6	179.4	184.3
77.5°	149.0	145.7	145.2	151.8	156.2
80°	119.8	115.9	117.6	125.3	129.1
82.5°	91.1	88.3	88.9	98.2	101.0
85°	61.3	60.2	61.8	70.1	70.6
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)