

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: P293350

Luminaire Tested: **24GR-LD5-38-F125-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293350
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-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3015.0 lumens
Efficiency: N/A
Efficacy: 119.2 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

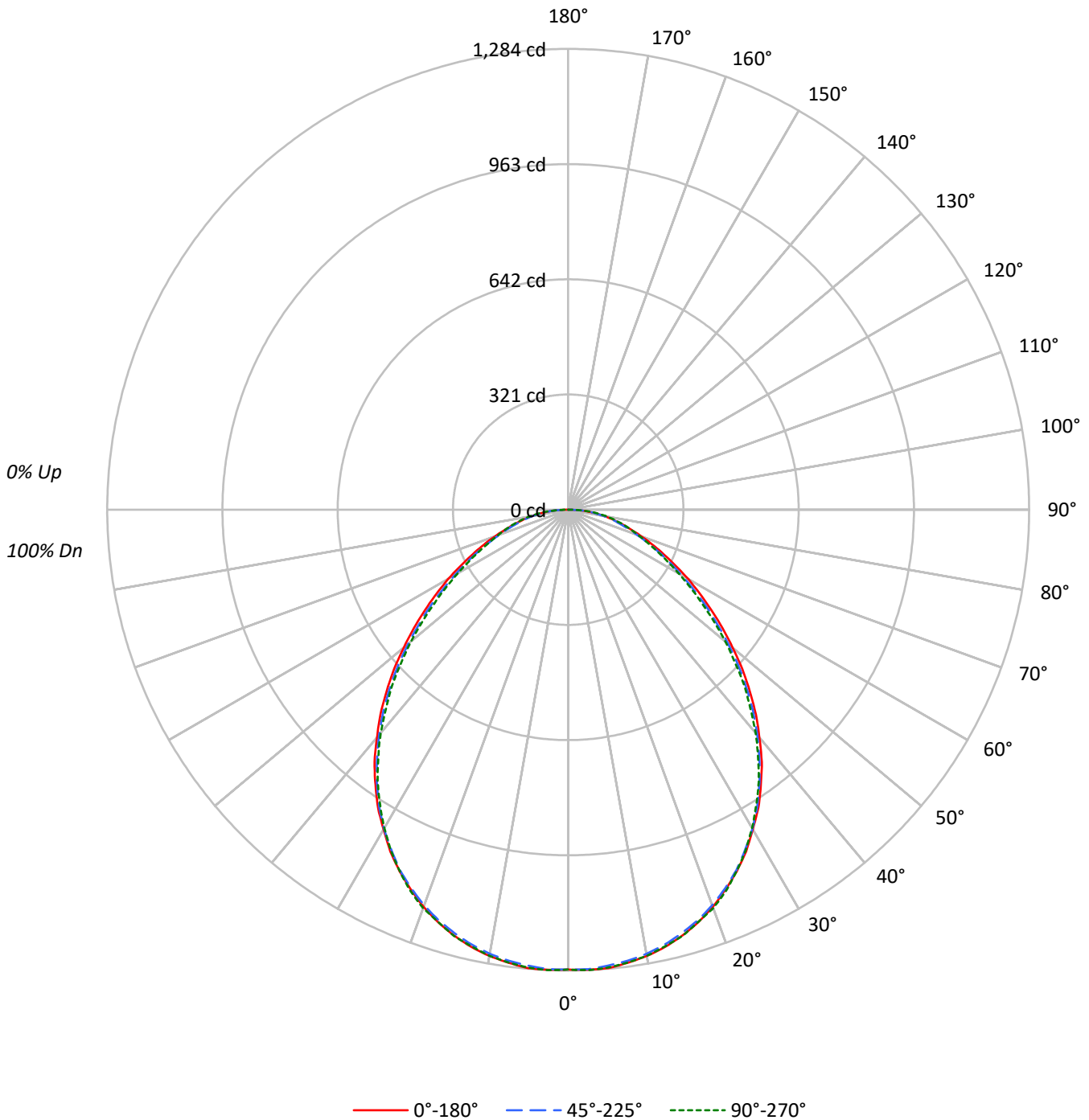
Input Watts (W): 25.296
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1724	1724	1724
5°	1732	1722	1729
10°	1725	1717	1724
15°	1711	1702	1713
20°	1686	1680	1692
25°	1650	1646	1649
30°	1598	1595	1591
35°	1537	1526	1520
40°	1455	1439	1427
45°	1361	1336	1320
50°	1251	1217	1196
55°	1141	1099	1067
60°	1036	980	955
65°	933	881	866
70°	855	799	821
75°	799	762	818
80°	793	778	855
85°	807	815	931



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.3	4.0
10°-20°	344.8	11.4
20°-30°	509.3	16.9
30°-40°	579.1	19.2
40°-50°	540.8	17.9
50°-60°	420.5	13.9
60°-70°	279.0	9.3
70°-80°	161.5	5.4
80°-90°	58.7	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°	975.4	32.4
0°-40°	1554.5	51.6
0°-60°	2515.8	83.4
0°-90°	3015.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3015.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1281	1281	1281	1281	1281	
5°	1282	1276	1275	1278	1280	122
15°	1229	1222	1222	1222	1230	346
25°	1111	1106	1108	1106	1111	511
35°	936	931	929	922	925	584
45°	715	710	702	693	694	551
55°	486	479	468	456	455	436
65°	293	284	277	271	272	293
75°	154	150	147	153	157	164
85°	52	51	53	60	60	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1281.4	1281.4	1281.4	1281.4	1281.4
2.5°	1283.3	1279.5	1281.4	1280.0	1284.2
5°	1282.3	1275.7	1275.2	1277.6	1280.4
7.5°	1273.4	1266.3	1267.7	1267.7	1272.4
10°	1262.5	1255.5	1256.4	1256.9	1262.1
12.5°	1247.9	1240.8	1241.3	1240.8	1246.0
15°	1228.6	1222.5	1222.0	1221.5	1229.5
17.5°	1205.0	1196.5	1199.4	1199.8	1204.1
20°	1177.7	1171.1	1173.0	1172.5	1181.5
22.5°	1145.2	1140.5	1141.9	1140.9	1149.4
25°	1111.2	1106.5	1108.4	1106.1	1110.8
27.5°	1073.1	1069.8	1067.9	1066.5	1069.8
30°	1028.3	1026.4	1026.4	1020.3	1024.1
32.5°	985.9	979.8	979.8	977.4	975.1
35°	935.9	931.2	928.9	922.3	925.1
37.5°	886.0	875.1	874.2	869.0	869.0
40°	828.5	822.4	819.1	813.4	812.5
42.5°	773.8	767.7	762.0	752.6	750.7
45°	715.4	709.7	702.2	693.2	693.7
47.5°	657.4	649.4	642.3	631.5	630.1
50°	597.6	591.9	581.5	572.1	571.6
52.5°	541.5	532.5	523.1	511.8	511.8
55°	486.3	479.3	468.4	456.2	454.8
57.5°	433.6	427.0	414.7	405.8	403.4
60°	385.0	375.6	364.3	356.7	354.9
62.5°	336.5	328.0	319.5	312.0	311.5
65°	293.1	284.2	276.6	271.4	271.9
67.5°	254.0	246.5	238.0	236.6	237.0
70°	217.3	209.2	203.1	206.4	208.8
72.5°	182.4	178.1	173.9	178.6	181.9
75°	153.6	149.9	146.6	153.2	157.4
77.5°	127.2	124.4	123.9	129.6	133.4
80°	102.3	99.0	100.4	107.0	110.3
82.5°	77.8	75.4	75.9	83.9	86.2
85°	52.3	51.4	52.8	59.9	60.3
87.5°	27.8	27.8	28.7	33.0	31.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)