

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: P293210

Luminaire Tested: **24GR-LD5-30-F125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293210
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-LD5-30-F125-UNV-L82765-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3096.0 lumens
Efficiency: N/A
Efficacy: 152.0 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

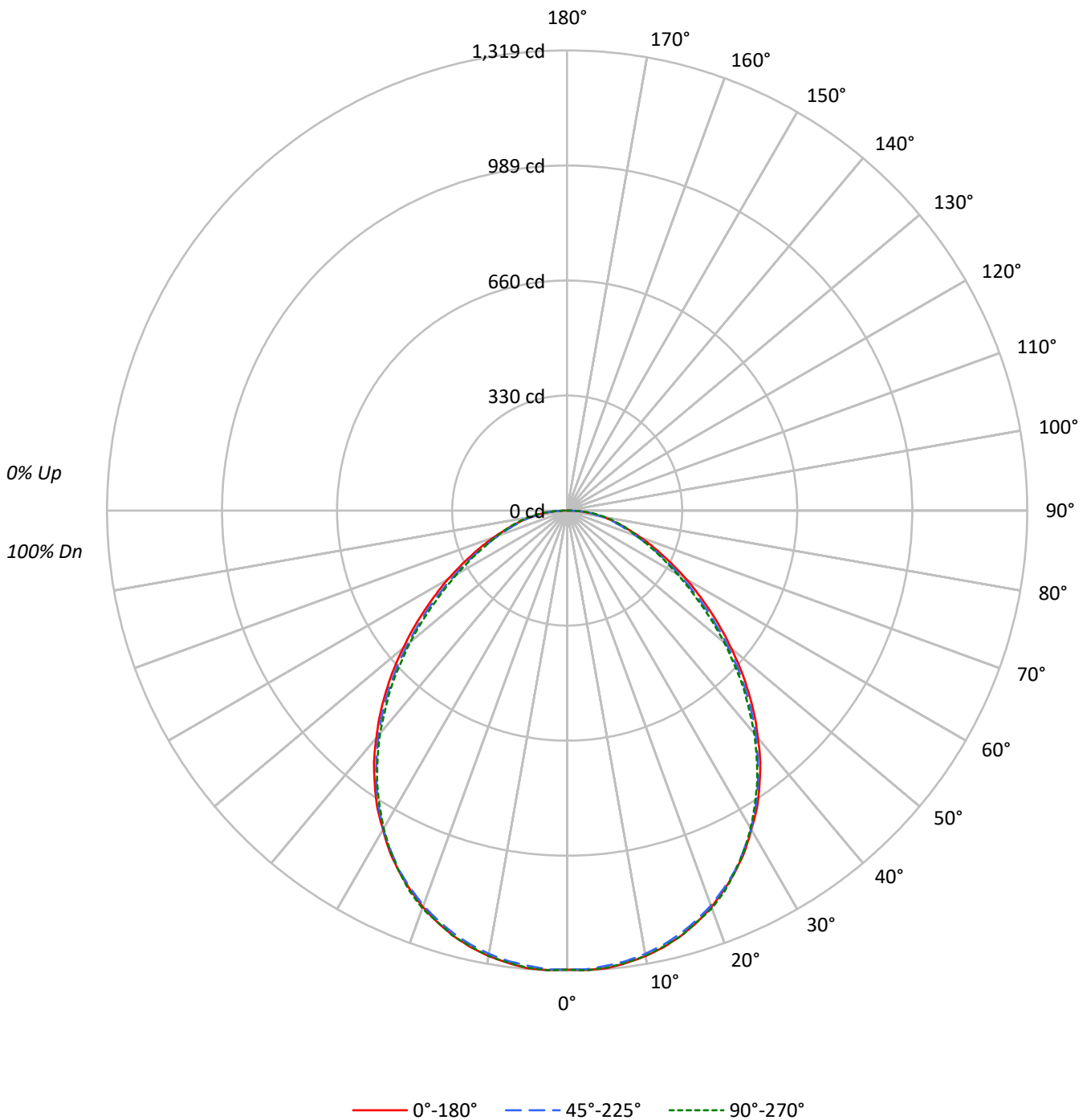
Input Watts (W): 20.367
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1770	1770	1770
5°	1779	1769	1776
10°	1771	1763	1771
15°	1757	1748	1759
20°	1732	1725	1737
25°	1694	1690	1693
30°	1640	1638	1634
35°	1579	1567	1560
40°	1494	1477	1465
45°	1398	1372	1355
50°	1284	1250	1229
55°	1171	1128	1095
60°	1064	1007	981
65°	958	904	889
70°	878	821	843
75°	820	782	840
80°	814	799	877
85°	829	837	956



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	4.0
10°-20°	354.0	11.4
20°-30°	523.0	16.9
30°-40°	594.6	19.2
40°-50°	555.3	17.9
50°-60°	431.8	13.9
60°-70°	286.5	9.3
70°-80°	165.8	5.4
80°-90°	60.3	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°	1001.6	32.4
0°-40°	1596.2	51.6
0°-60°	2583.4	83.4
0°-90°	3096.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3096.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1316	1316	1316	1316	1316	
5°	1317	1310	1310	1312	1315	125
15°	1262	1255	1255	1254	1263	355
25°	1141	1136	1138	1136	1141	525
35°	961	956	954	947	950	600
45°	735	729	721	712	712	566
55°	499	492	481	468	467	448
65°	301	292	284	279	279	301
75°	158	154	150	157	162	169
85°	54	53	54	62	62	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1315.8	1315.8	1315.8	1315.8	1315.8
2.5°	1317.7	1313.9	1315.8	1314.3	1318.7
5°	1316.8	1310.0	1309.5	1311.9	1314.8
7.5°	1307.6	1300.3	1301.8	1301.8	1306.6
10°	1296.4	1289.2	1290.2	1290.6	1296.0
12.5°	1281.4	1274.2	1274.7	1274.2	1279.5
15°	1261.6	1255.3	1254.8	1254.3	1262.6
17.5°	1237.4	1228.7	1231.6	1232.1	1236.4
20°	1209.3	1202.6	1204.5	1204.0	1213.2
22.5°	1175.9	1171.1	1172.6	1171.6	1180.3
25°	1141.1	1136.3	1138.2	1135.8	1140.6
27.5°	1101.9	1098.5	1096.6	1095.1	1098.5
30°	1055.9	1054.0	1054.0	1047.7	1051.6
32.5°	1012.4	1006.1	1006.1	1003.7	1001.2
35°	961.1	956.2	953.8	947.0	950.0
37.5°	909.8	898.7	897.7	892.4	892.4
40°	850.7	844.5	841.1	835.3	834.3
42.5°	794.6	788.3	782.5	772.8	770.9
45°	734.6	728.8	721.1	711.9	712.3
47.5°	675.1	666.9	659.6	648.5	647.0
50°	613.6	607.8	597.2	587.5	587.0
52.5°	556.0	546.8	537.2	525.5	525.5
55°	499.4	492.2	481.0	468.4	467.0
57.5°	445.2	438.4	425.9	416.7	414.2
60°	395.4	385.7	374.1	366.3	364.4
62.5°	345.5	336.8	328.1	320.4	319.9
65°	301.0	291.8	284.1	278.7	279.2
67.5°	260.8	253.1	244.4	242.9	243.4
70°	223.1	214.9	208.6	212.0	214.4
72.5°	187.3	182.9	178.6	183.4	186.8
75°	157.8	153.9	150.5	157.3	161.6
77.5°	130.7	127.8	127.3	133.1	137.0
80°	105.0	101.6	103.1	109.9	113.2
82.5°	79.8	77.4	77.9	86.1	88.6
85°	53.7	52.7	54.2	61.5	61.9
87.5°	28.6	28.6	29.5	33.9	32.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)