

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: P293848

Luminaire Tested: **24GR-LD5-34-A125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293848
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-34-A125-UNV-L92765-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3089.0 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

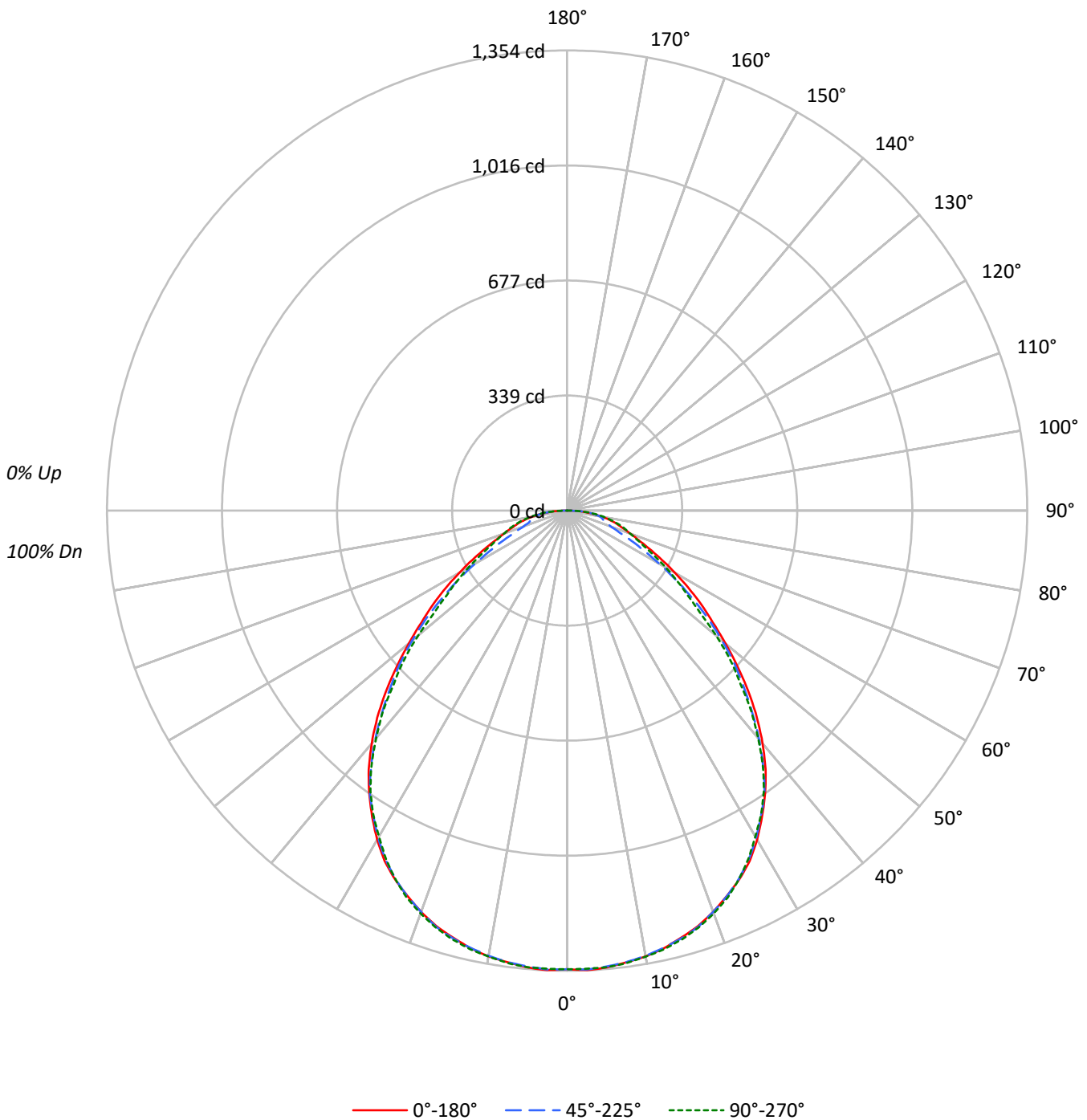
Input Watts (W): 23.25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1816	1816	1816
5°	1822	1818	1822
10°	1820	1817	1820
15°	1811	1814	1819
20°	1799	1799	1806
25°	1779	1775	1776
30°	1737	1728	1720
35°	1668	1664	1657
40°	1572	1543	1536
45°	1438	1398	1373
50°	1271	1246	1197
55°	1130	1053	1013
60°	984	843	904
65°	850	654	799
70°	775	535	773
75°	782	576	822
80°	814	751	866
85°	848	892	960



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.0	4.1
10°-20°	367.2	11.9
20°-30°	549.7	17.8
30°-40°	628.1	20.3
40°-50°	567.9	18.4
50°-60°	408.5	13.2
60°-70°	236.9	7.7
70°-80°	140.5	4.5
80°-90°	62.2	2.0
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°	1044.9	33.8
0°-40°	1673.0	54.2
0°-60°	2649.4	85.8
0°-90°	3089.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3089.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1350	1350	1350	1350	1350	
5°	1349	1347	1346	1344	1349	128
15°	1300	1303	1303	1301	1306	367
25°	1198	1196	1196	1193	1196	551
35°	1016	1011	1013	1000	1009	633
45°	756	743	735	728	721	580
55°	482	473	449	438	432	431
65°	267	237	205	229	251	270
75°	150	126	111	137	158	159
85°	55	59	58	66	62	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1349.8	1349.8	1349.8	1349.8	1349.8
2.5°	1353.6	1348.8	1351.2	1349.8	1349.3
5°	1349.3	1347.4	1346.4	1344.5	1348.8
7.5°	1340.6	1339.2	1339.7	1340.1	1343.0
10°	1332.0	1329.5	1330.0	1331.0	1332.4
12.5°	1318.5	1317.0	1317.5	1318.5	1321.8
15°	1300.2	1302.6	1302.6	1301.1	1305.9
17.5°	1281.8	1281.4	1283.8	1279.4	1286.2
20°	1256.3	1256.8	1256.3	1256.8	1261.1
22.5°	1227.4	1229.8	1228.3	1228.3	1233.2
25°	1198.0	1196.5	1195.6	1193.2	1196.5
27.5°	1162.8	1159.9	1157.5	1152.7	1155.1
30°	1118.0	1118.5	1112.2	1107.9	1106.9
32.5°	1067.9	1067.9	1062.1	1058.7	1061.6
35°	1015.8	1011.0	1012.9	1000.4	1009.1
37.5°	959.5	951.7	947.4	943.1	946.0
40°	894.9	884.8	878.5	869.8	874.6
42.5°	826.9	814.4	806.7	800.4	802.4
45°	755.6	742.6	734.9	728.1	721.4
47.5°	680.4	672.2	668.4	659.7	652.0
50°	607.2	604.3	595.1	587.9	572.0
52.5°	540.2	537.8	523.3	511.3	491.1
55°	481.9	472.7	449.1	437.6	431.8
57.5°	422.6	407.7	379.3	377.8	381.7
60°	365.8	347.4	313.2	320.9	335.9
62.5°	314.2	286.7	254.0	272.3	290.1
65°	267.0	237.1	205.3	229.4	251.1
67.5°	227.9	198.1	165.3	197.6	222.6
70°	197.1	166.7	135.9	173.0	196.6
72.5°	171.6	144.1	118.5	153.7	178.3
75°	150.4	125.8	110.8	136.9	158.1
77.5°	129.1	109.4	106.0	121.9	134.9
80°	105.1	95.9	96.9	107.0	111.8
82.5°	78.5	79.0	81.4	89.6	87.7
85°	54.9	59.3	57.8	66.5	62.2
87.5°	30.4	33.3	31.3	38.1	34.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)