

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: P293294

Luminaire Tested: **24GR-LD5-34-F125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293294
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-LD5-34-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: 3205.0 lumens
Efficiency: N/A
Efficacy: 136.0 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

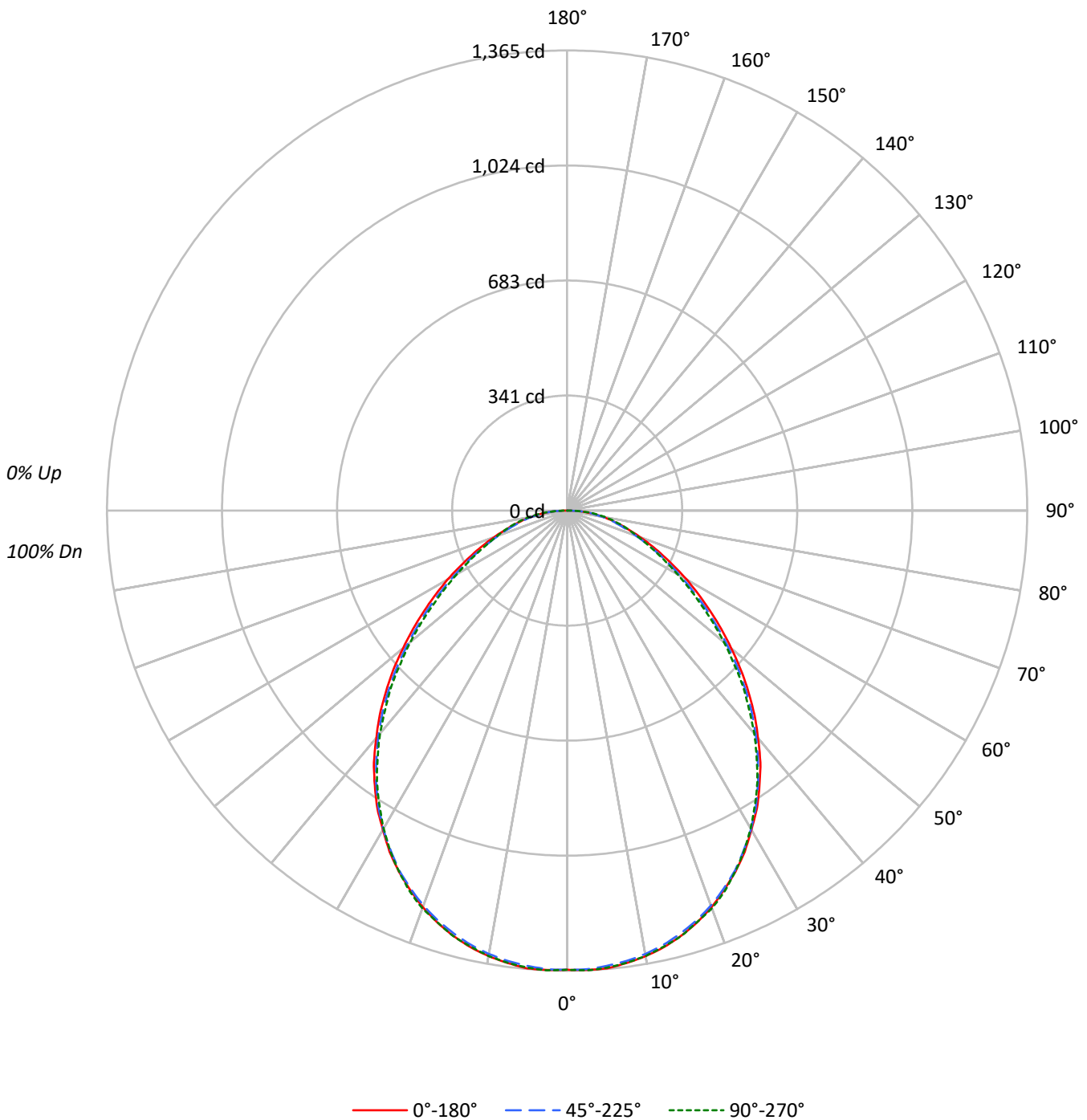
Input Watts (W): 23.568246
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1833	1833	1833
5°	1841	1831	1838
10°	1834	1825	1833
15°	1819	1809	1821
20°	1793	1785	1798
25°	1754	1749	1753
30°	1698	1695	1691
35°	1634	1622	1615
40°	1547	1529	1517
45°	1447	1420	1403
50°	1330	1294	1272
55°	1213	1168	1134
60°	1101	1042	1015
65°	992	936	920
70°	908	849	873
75°	849	810	870
80°	842	827	908
85°	858	866	990



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.9	4.0
10°-20°	366.5	11.4
20°-30°	541.4	16.9
30°-40°	615.6	19.2
40°-50°	574.8	17.9
50°-60°	447.0	13.9
60°-70°	296.6	9.3
70°-80°	171.7	5.4
80°-90°	62.4	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°	1036.9	32.4
0°-40°	1652.4	51.6
0°-60°	2674.3	83.4
0°-90°	3205.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3205.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1362	1362	1362	1362	1362	
5°	1363	1356	1356	1358	1361	129
15°	1306	1300	1299	1298	1307	368
25°	1181	1176	1178	1176	1181	543
35°	995	990	987	980	983	621
45°	760	754	746	737	737	586
55°	517	510	498	485	483	464
65°	312	302	294	289	289	311
75°	163	159	156	163	167	175
85°	56	55	56	64	64	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1362.1	1362.1	1362.1	1362.1	1362.1
2.5°	1364.1	1360.1	1362.1	1360.6	1365.1
5°	1363.1	1356.1	1355.6	1358.1	1361.1
7.5°	1353.6	1346.1	1347.6	1347.6	1352.6
10°	1342.1	1334.6	1335.6	1336.1	1341.6
12.5°	1326.6	1319.0	1319.5	1319.0	1324.6
15°	1306.0	1299.5	1299.0	1298.5	1307.0
17.5°	1281.0	1272.0	1275.0	1275.5	1280.0
20°	1251.9	1244.9	1246.9	1246.4	1255.9
22.5°	1217.3	1212.3	1213.8	1212.8	1221.9
25°	1181.3	1176.3	1178.3	1175.8	1180.8
27.5°	1140.7	1137.2	1135.2	1133.7	1137.2
30°	1093.1	1091.1	1091.1	1084.6	1088.6
32.5°	1048.0	1041.5	1041.5	1039.0	1036.5
35°	994.9	989.9	987.4	980.4	983.4
37.5°	941.8	930.3	929.3	923.8	923.8
40°	880.7	874.2	870.7	864.7	863.7
42.5°	822.6	816.1	810.1	800.0	798.0
45°	760.5	754.5	746.4	736.9	737.4
47.5°	698.8	690.3	682.8	671.3	669.8
50°	635.2	629.2	618.2	608.2	607.7
52.5°	575.6	566.1	556.1	544.0	544.0
55°	517.0	509.5	498.0	484.9	483.4
57.5°	460.9	453.9	440.8	431.3	428.8
60°	409.3	399.3	387.2	379.2	377.2
62.5°	357.7	348.7	339.7	331.6	331.1
65°	311.6	302.1	294.1	288.6	289.1
67.5°	270.0	262.0	253.0	251.5	252.0
70°	230.9	222.4	215.9	219.4	221.9
72.5°	193.9	189.4	184.9	189.9	193.4
75°	163.3	159.3	155.8	162.8	167.3
77.5°	135.3	132.3	131.8	137.8	141.8
80°	108.7	105.2	106.7	113.7	117.2
82.5°	82.7	80.2	80.7	89.2	91.7
85°	55.6	54.6	56.1	63.6	64.1
87.5°	29.6	29.6	30.6	35.1	33.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)