

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: P291937

Luminaire Tested: **22GR-LD5-24-F125-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-24-F125-UNV-L83050-W2A1-U-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2585.9 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

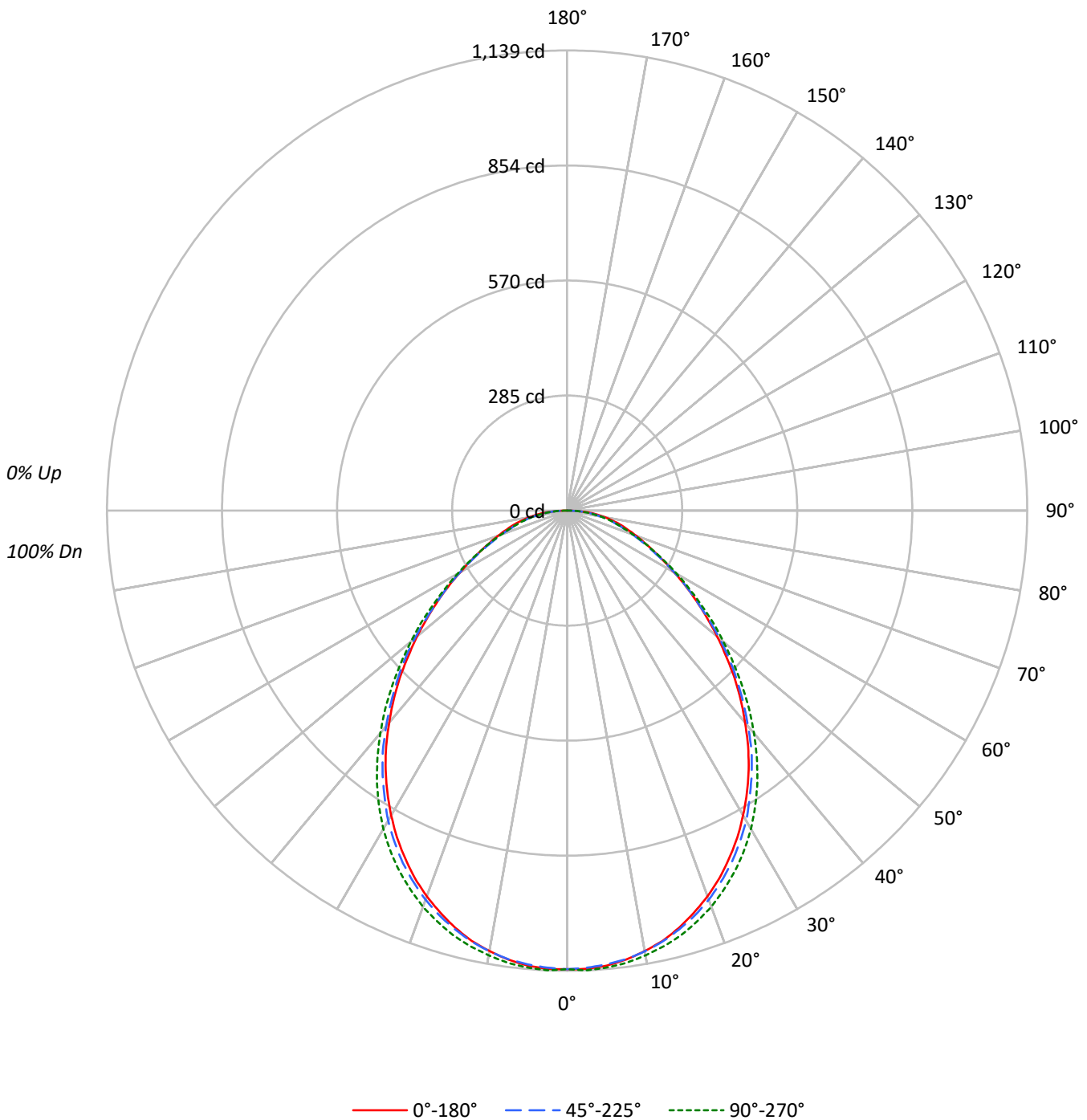
Input Watts (W): 19.065
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3055	3055	3055
5°	3054	3046	3067
10°	3025	3027	3055
15°	2979	2989	3032
20°	2909	2935	2988
25°	2819	2858	2920
30°	2707	2754	2827
35°	2574	2616	2696
40°	2407	2447	2527
45°	2229	2263	2329
50°	2030	2062	2115
55°	1833	1838	1892
60°	1644	1650	1689
65°	1498	1467	1501
70°	1426	1345	1369
75°	1435	1298	1304
80°	1488	1311	1302
85°	1630	1389	1315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	4.1
10°-20°	303.0	11.7
20°-30°	443.5	17.1
30°-40°	498.6	19.3
40°-50°	459.8	17.8
50°-60°	354.4	13.7
60°-70°	233.8	9.0
70°-80°	136.1	5.3
80°-90°	49.6	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°	853.7	33.0
0°-40°	1352.3	52.3
0°-60°	2166.4	83.8
0°-90°	2585.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2585.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1135	1135	1135	1135	1135	
5°	1130	1128	1128	1133	1135	107
15°	1069	1069	1073	1082	1088	301
25°	949	954	962	976	984	437
35°	784	787	796	812	821	489
45°	586	586	595	607	612	451
55°	391	390	392	398	403	350
65°	235	234	230	232	236	236
75°	138	132	125	122	125	145
85°	53	52	45	41	43	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1135.3	1135.3	1135.3	1135.3	<i>1135.3</i>
2.5°	<i>1135.3</i>	<i>1132.9</i>	<i>1132.3</i>	<i>1136.5</i>	<i>1138.9</i>
5°	1130.5	1128.1	1127.5	1132.9	<i>1135.3</i>
7.5°	1120.9	1119.1	1119.7	1125.7	<i>1128.7</i>
10°	1107.1	1106.5	1107.7	1114.3	<i>1117.9</i>
12.5°	1090.9	1090.3	1092.7	1099.9	<i>1104.7</i>
15°	1069.3	1069.3	1072.9	1082.5	<i>1088.5</i>
17.5°	1043.5	1045.3	1050.7	1060.3	<i>1066.9</i>
20°	1015.9	1017.7	1024.9	1035.7	<i>1043.5</i>
22.5°	985.3	987.7	994.9	1008.1	<i>1014.7</i>
25°	949.3	954.1	962.5	975.7	<i>983.5</i>
27.5°	912.1	917.5	925.3	941.5	<i>948.7</i>
30°	871.2	874.8	886.3	901.3	<i>909.7</i>
32.5°	828.0	831.6	841.2	859.2	<i>866.4</i>
35°	783.6	787.2	796.2	812.4	<i>820.8</i>
37.5°	735.6	738.6	749.4	762.0	<i>771.0</i>
40°	685.2	689.4	696.6	711.6	<i>719.4</i>
42.5°	636.0	637.8	645.6	660.6	<i>666.6</i>
45°	585.6	586.2	594.6	606.6	<i>612.0</i>
47.5°	533.4	534.6	544.8	552.0	<i>557.4</i>
50°	484.8	485.4	492.6	499.2	<i>505.2</i>
52.5°	436.2	436.2	439.8	447.0	<i>454.8</i>
55°	390.6	390.0	391.8	398.4	<i>403.2</i>
57.5°	347.4	346.8	349.2	353.4	<i>357.0</i>
60°	305.4	304.2	306.6	309.0	<i>313.8</i>
62.5°	268.2	269.4	266.4	270.0	<i>273.6</i>
65°	235.2	234.0	230.4	232.2	<i>235.8</i>
67.5°	207.0	205.2	199.2	200.4	<i>204.6</i>
70°	181.2	177.6	171.0	171.0	<i>174.0</i>
72.5°	157.8	154.2	145.8	146.4	<i>147.6</i>
75°	138.0	132.0	124.8	122.4	<i>125.4</i>
77.5°	116.4	111.6	105.0	103.2	<i>104.4</i>
80°	96.0	92.4	84.6	82.2	<i>84.0</i>
82.5°	76.2	73.2	64.2	62.4	<i>63.0</i>
85°	52.8	52.2	45.0	41.4	<i>42.6</i>
87.5°	28.2	28.8	23.4	21.0	<i>22.2</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)