

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: P292083

Luminaire Tested: **22GR-LD5-28-F125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292083
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-LD5-28-F125-UNV-L92765-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2577.0 lumens
Efficiency: N/A
Efficacy: 115.5 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

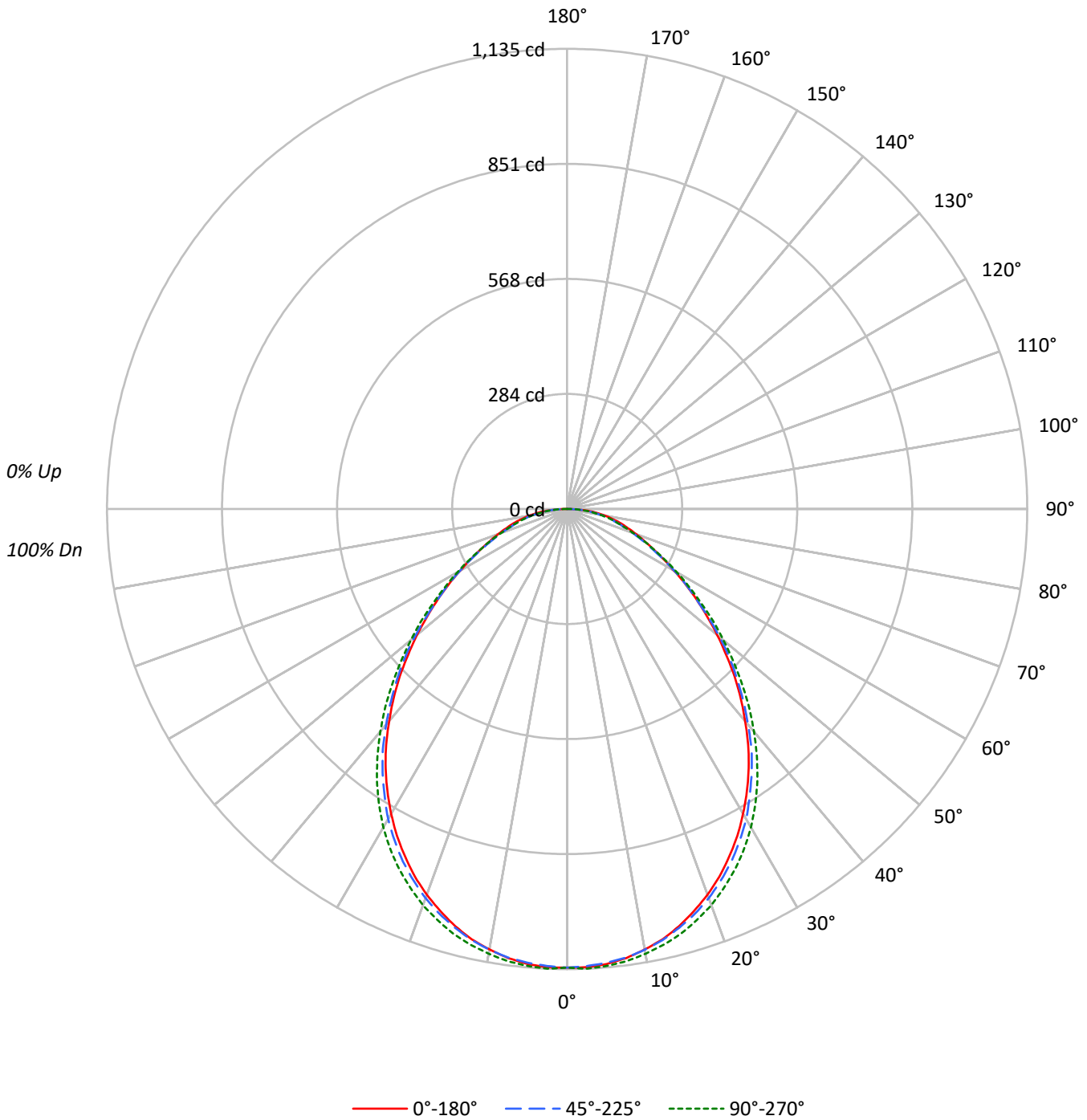
Input Watts (W): 22.32
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3044	3044	3044
5°	3043	3035	3056
10°	3014	3016	3044
15°	2968	2978	3022
20°	2899	2925	2978
25°	2809	2848	2910
30°	2698	2744	2817
35°	2565	2607	2687
40°	2399	2439	2518
45°	2221	2255	2321
50°	2022	2055	2108
55°	1826	1832	1885
60°	1638	1645	1683
65°	1493	1462	1496
70°	1421	1341	1364
75°	1430	1293	1300
80°	1483	1306	1297
85°	1624	1383	1312



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.9	4.1
10°-20°	301.9	11.7
20°-30°	441.9	17.1
30°-40°	496.9	19.3
40°-50°	458.2	17.8
50°-60°	353.2	13.7
60°-70°	233.0	9.0
70°-80°	135.6	5.3
80°-90°	49.4	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°	850.7	33.0
0°-40°	1347.6	52.3
0°-60°	2158.9	83.8
0°-90°	2577.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2577.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1131	1131	1131	1131	1131	
5°	1126	1124	1124	1129	1131	107
15°	1066	1066	1069	1079	1085	300
25°	946	951	959	972	980	435
35°	781	784	794	810	818	487
45°	584	584	593	604	610	449
55°	389	389	390	397	402	349
65°	234	233	230	231	235	235
75°	138	132	124	122	125	145
85°	53	52	45	41	42	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1131.3	1131.3	1131.3	1131.3	<i>1131.3</i>
2.5°	<i>1131.3</i>	<i>1128.9</i>	<i>1128.3</i>	<i>1132.5</i>	<i>1134.9</i>
5°	1126.5	1124.1	1123.5	1128.9	<i>1131.3</i>
7.5°	1117.0	1115.2	1115.8	1121.7	<i>1124.7</i>
10°	1103.2	1102.6	1103.8	1110.4	<i>1114.0</i>
12.5°	1087.1	1086.5	1088.9	1096.0	<i>1100.8</i>
15°	1065.5	1065.5	1069.1	1078.7	<i>1084.7</i>
17.5°	1039.8	1041.6	1047.0	1056.6	<i>1063.1</i>
20°	1012.3	1014.1	1021.3	1032.1	<i>1039.8</i>
22.5°	981.8	984.2	991.4	1004.5	<i>1011.1</i>
25°	946.0	950.7	959.1	972.3	<i>980.0</i>
27.5°	908.9	914.3	922.0	938.2	<i>945.4</i>
30°	868.2	871.8	883.2	898.1	<i>906.5</i>
32.5°	825.2	828.8	838.3	856.3	<i>863.4</i>
35°	780.9	784.5	793.5	809.6	<i>818.0</i>
37.5°	733.1	736.1	746.8	759.4	<i>768.4</i>
40°	682.9	687.0	694.2	709.2	<i>716.9</i>
42.5°	633.8	635.6	643.4	658.3	<i>664.3</i>
45°	583.6	584.2	592.6	604.5	<i>609.9</i>
47.5°	531.6	532.8	542.9	550.1	<i>555.5</i>
50°	483.1	483.7	490.9	497.5	<i>503.5</i>
52.5°	434.7	434.7	438.3	445.5	<i>453.2</i>
55°	389.3	388.7	390.5	397.0	<i>401.8</i>
57.5°	346.2	345.6	348.0	352.2	<i>355.8</i>
60°	304.4	303.2	305.6	307.9	<i>312.7</i>
62.5°	267.3	268.5	265.5	269.1	<i>272.7</i>
65°	234.4	233.2	229.6	231.4	<i>235.0</i>
67.5°	206.3	204.5	198.5	199.7	<i>203.9</i>
70°	180.6	177.0	170.4	170.4	<i>173.4</i>
72.5°	157.3	153.7	145.3	145.9	<i>147.1</i>
75°	137.5	131.5	124.4	122.0	<i>125.0</i>
77.5°	116.0	111.2	104.6	102.8	<i>104.0</i>
80°	95.7	92.1	84.3	81.9	<i>83.7</i>
82.5°	75.9	72.9	64.0	62.2	<i>62.8</i>
85°	52.6	52.0	44.8	41.3	<i>42.5</i>
87.5°	28.1	28.7	23.3	20.9	<i>22.1</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)