

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: P292332

Luminaire Tested: **22GR-LD5-28-A125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292332
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-28-A125-UNV-L83050-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2904.0 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

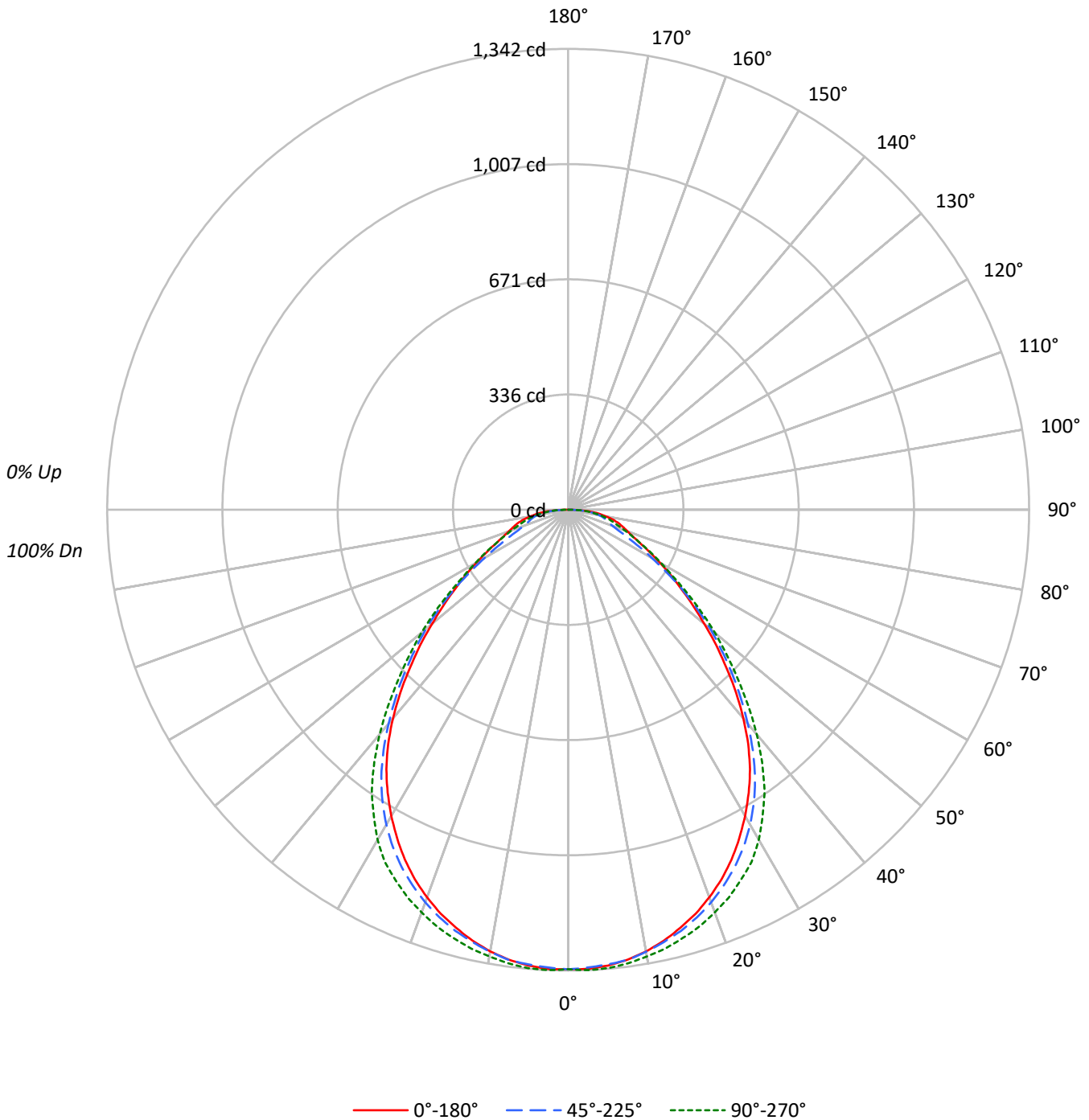
Input Watts (W): 22.041
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3602	3602	3602
5°	3599	3590	3620
10°	3569	3573	3610
15°	3512	3537	3597
20°	3440	3484	3574
25°	3339	3408	3532
30°	3200	3291	3448
35°	3032	3116	3274
40°	2787	2857	2999
45°	2476	2567	2659
50°	2163	2262	2330
55°	1880	1906	1976
60°	1654	1516	1687
65°	1470	1212	1479
70°	1444	1076	1364
75°	1577	1183	1394
80°	1731	1406	1489
85°	2069	1630	1673



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.5	4.4
10°-20°	358.8	12.4
20°-30°	529.6	18.2
30°-40°	592.6	20.4
40°-50°	520.4	17.9
50°-60°	368.3	12.7
60°-70°	214.4	7.4
70°-80°	133.6	4.6
80°-90°	59.8	2.1
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°	1014.9	34.9
0°-40°	1607.6	55.4
0°-60°	2496.3	86.0
0°-90°	2904.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2904.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1339	1339	1339	1339	1339	
5°	1332	1329	1329	1336	1340	126
15°	1261	1263	1270	1283	1291	355
25°	1125	1129	1148	1175	1190	517
35°	923	927	949	977	997	574
45°	651	658	674	691	699	503
55°	401	409	406	414	421	362
65°	231	213	190	207	232	234
75°	152	131	114	116	134	158
85°	67	70	53	52	54	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1338.6	1338.6	1338.6	1338.6	<i>1338.6</i>
2.5°	<i>1338.6</i>	<i>1335.9</i>	<i>1334.5</i>	<i>1339.3</i>	<i>1342.0</i>
5°	1332.5	1329.1	1329.1	1335.9	<i>1340.0</i>
7.5°	1321.7	1318.3	1322.4	1328.4	<i>1332.5</i>
10°	1306.1	1304.7	1307.5	1315.6	<i>1321.0</i>
12.5°	1285.8	1286.5	1289.2	1302.0	<i>1308.8</i>
15°	1260.7	1263.4	1269.5	1283.1	<i>1291.2</i>
17.5°	1233.7	1235.7	1245.2	1260.7	<i>1272.2</i>
20°	1201.2	1205.2	1216.7	1236.4	<i>1247.9</i>
22.5°	1165.3	1170.0	1184.2	1207.9	<i>1222.1</i>
25°	1124.6	1129.4	1147.7	1174.7	<i>1189.6</i>
27.5°	1078.6	1086.0	1106.4	1136.2	<i>1156.5</i>
30°	1029.8	1035.9	1059.0	1092.8	<i>1109.7</i>
32.5°	977.7	985.2	1006.8	1039.3	<i>1054.2</i>
35°	922.9	926.9	948.6	977.0	<i>996.7</i>
37.5°	860.6	862.6	882.9	909.3	<i>926.9</i>
40°	793.5	794.9	813.2	838.2	<i>853.8</i>
42.5°	723.8	724.5	744.1	763.1	<i>776.6</i>
45°	650.7	658.1	674.4	690.6	<i>698.8</i>
47.5°	585.0	590.4	605.3	619.5	<i>627.0</i>
50°	516.6	530.2	540.3	547.8	<i>556.6</i>
52.5°	457.7	469.2	471.9	480.7	<i>488.2</i>
55°	400.8	409.0	406.3	413.7	<i>421.1</i>
57.5°	352.8	348.7	339.9	352.8	<i>362.2</i>
60°	307.4	296.6	281.7	299.3	<i>313.5</i>
62.5°	266.8	249.2	230.9	248.5	<i>272.2</i>
65°	230.9	212.6	190.3	207.2	<i>232.2</i>
67.5°	203.8	184.8	158.4	175.4	<i>200.4</i>
70°	183.5	163.9	136.8	151.0	<i>173.3</i>
72.5°	167.2	146.3	122.6	132.0	<i>151.0</i>
75°	151.7	130.7	113.8	116.5	<i>134.1</i>
77.5°	133.4	117.8	104.3	102.9	<i>116.5</i>
80°	111.7	107.0	90.7	88.7	<i>96.1</i>
82.5°	92.1	90.1	74.5	72.4	<i>75.2</i>
85°	67.0	69.7	52.8	51.5	<i>54.2</i>
87.5°	35.2	38.6	27.8	29.1	<i>29.8</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)