

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: P292441

Luminaire Tested: **22GR-LD5-36-A125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292441
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-LD5-36-A125-UNV-L93050-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3305.0 lumens
Efficiency: N/A
Efficacy: 114.6 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

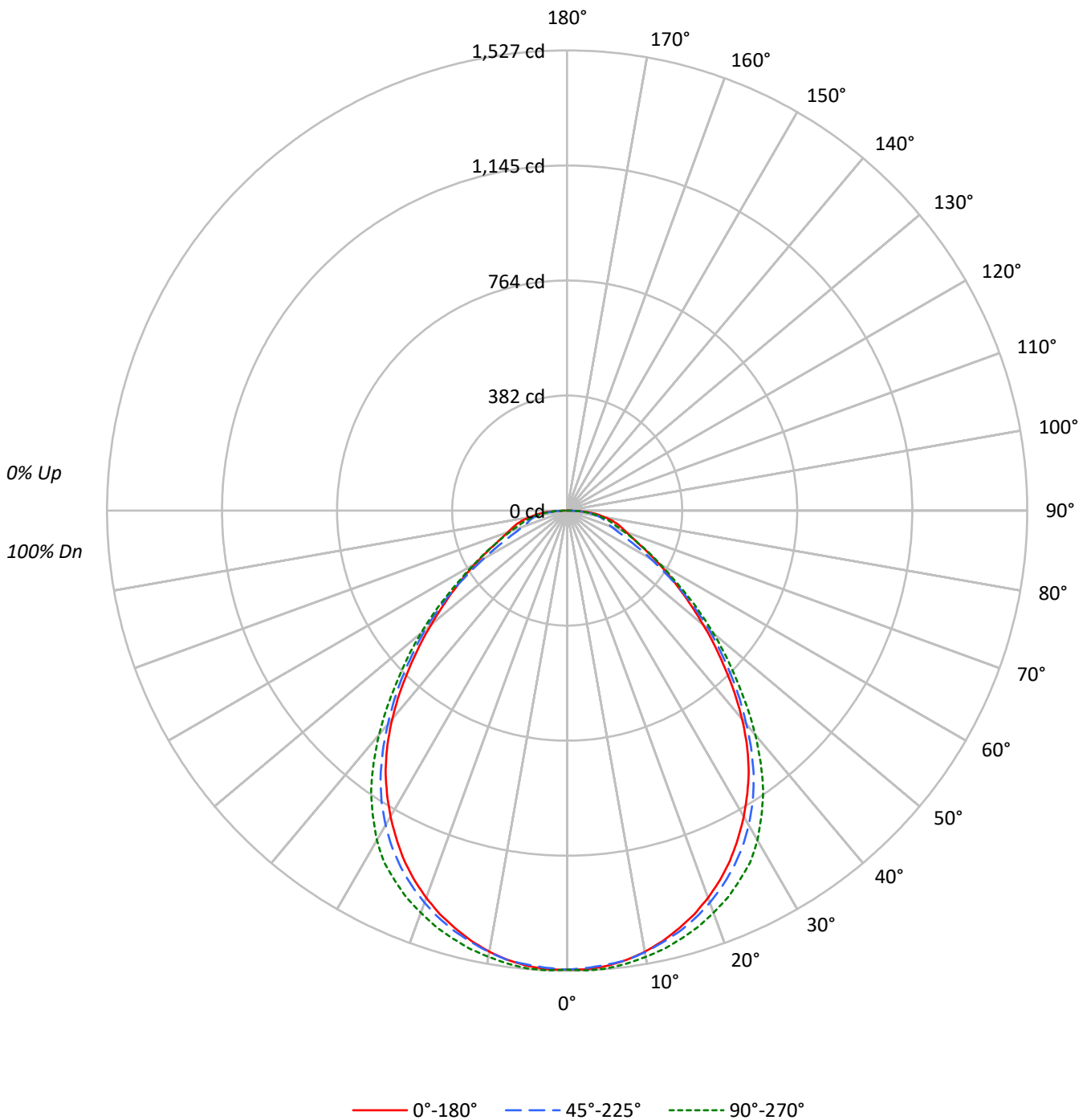
Input Watts (W): 28.83
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4099	4099	4099
5°	4096	4086	4119
10°	4062	4066	4108
15°	3997	4025	4094
20°	3915	3965	4067
25°	3800	3878	4020
30°	3642	3745	3924
35°	3450	3547	3726
40°	3172	3251	3413
45°	2818	2921	3026
50°	2462	2574	2652
55°	2140	2169	2249
60°	1883	1725	1920
65°	1673	1379	1683
70°	1643	1225	1552
75°	1795	1346	1587
80°	1970	1601	1695
85°	2356	1856	1902



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.0	4.4
10°-20°	408.3	12.4
20°-30°	602.8	18.2
30°-40°	674.5	20.4
40°-50°	592.3	17.9
50°-60°	419.1	12.7
60°-70°	244.0	7.4
70°-80°	152.0	4.6
80°-90°	68.0	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°	1155.1	34.9
0°-40°	1829.6	55.4
0°-60°	2841.0	86.0
0°-90°	3305.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3305.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1523	1523	1523	1523	1523	
5°	1516	1513	1513	1520	1525	144
15°	1435	1438	1445	1460	1470	404
25°	1280	1285	1306	1337	1354	588
35°	1050	1055	1080	1112	1134	653
45°	740	749	768	786	795	573
55°	456	465	462	471	479	412
65°	263	242	216	236	264	267
75°	173	149	130	132	153	180
85°	76	79	60	59	62	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1523.4	1523.4	1523.4	1523.4	1523.4
2.5°	1523.4	1520.4	1518.8	1524.2	1527.3
5°	1516.5	1512.7	1512.7	1520.4	1525.0
7.5°	1504.2	1500.3	1504.9	1511.9	1516.5
10°	1486.5	1484.9	1488.0	1497.2	1503.4
12.5°	1463.3	1464.1	1467.2	1481.8	1489.5
15°	1434.8	1437.9	1444.8	1460.3	1469.5
17.5°	1404.0	1406.3	1417.1	1434.8	1447.9
20°	1367.0	1371.6	1384.7	1407.1	1420.2
22.5°	1326.2	1331.6	1347.7	1374.7	1390.9
25°	1279.9	1285.3	1306.1	1337.0	1353.9
27.5°	1227.5	1236.0	1259.1	1293.0	1316.2
30°	1172.1	1179.0	1205.2	1243.7	1263.0
32.5°	1112.7	1121.2	1145.9	1182.8	1199.8
35°	1050.3	1054.9	1079.6	1112.0	1134.3
37.5°	979.4	981.7	1004.8	1034.9	1054.9
40°	903.1	904.7	925.5	954.0	971.7
42.5°	823.8	824.5	846.9	868.4	883.9
45°	740.5	749.0	767.5	786.0	795.2
47.5°	665.8	671.9	688.9	705.1	713.6
50°	588.0	603.4	614.9	623.4	633.4
52.5°	520.9	534.0	537.1	547.1	555.6
55°	456.2	465.4	462.3	470.8	479.3
57.5°	401.5	396.8	386.8	401.5	412.3
60°	349.8	337.5	320.6	340.6	356.8
62.5°	303.6	283.6	262.8	282.8	309.8
65°	262.8	242.0	216.5	235.8	264.3
67.5°	231.9	210.4	180.3	199.6	228.1
70°	208.8	186.5	155.7	171.8	197.3
72.5°	190.3	166.4	139.5	150.3	171.8
75°	172.6	148.7	129.5	132.5	152.6
77.5°	151.8	134.1	118.7	117.1	132.5
80°	127.1	121.8	103.3	100.9	109.4
82.5°	104.8	102.5	84.8	82.5	85.5
85°	76.3	79.4	60.1	58.6	61.6
87.5°	40.1	43.9	31.6	33.1	33.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)