

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: P292443

Luminaire Tested: **22GR-LD5-36-A125-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292443
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-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3363.0 lumens
Efficiency: N/A
Efficacy: 114.8 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

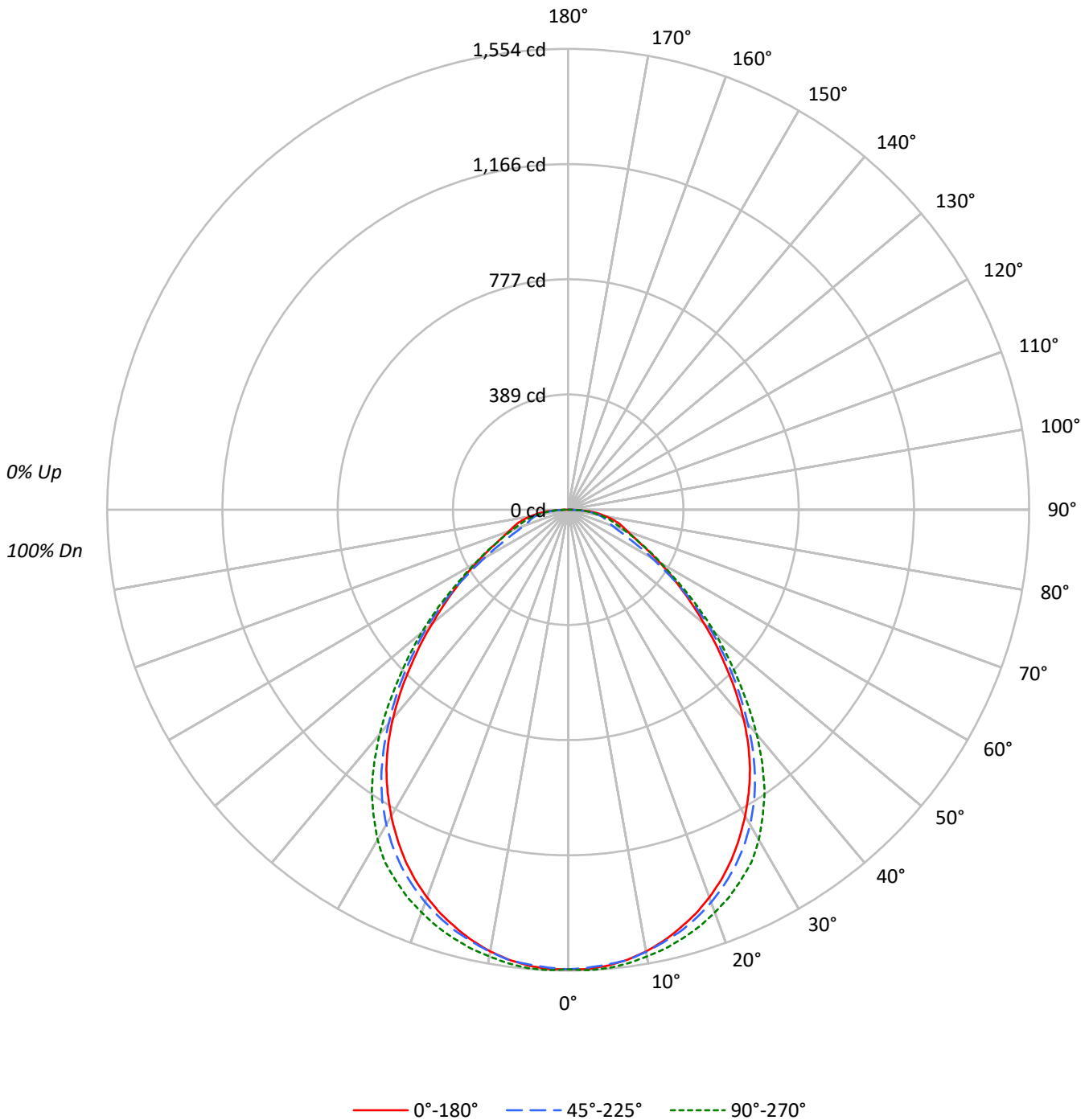
Input Watts (W): 29.295
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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																			100									
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86																			86									
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74																			74									
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64																			64									
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56																			56									
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49																			49									
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44																			44									
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39																			39									
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36																			36									
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32																			32									
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29																			29									

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4172	4172	4172
5°	4168	4158	4192
10°	4133	4137	4180
15°	4067	4096	4166
20°	3983	4035	4138
25°	3867	3946	4091
30°	3706	3810	3993
35°	3511	3609	3792
40°	3228	3308	3473
45°	2868	2972	3080
50°	2505	2619	2698
55°	2178	2207	2288
60°	1916	1756	1954
65°	1703	1403	1712
70°	1672	1246	1579
75°	1826	1369	1615
80°	2005	1629	1725
85°	2396	1890	1936



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.5	4.4
10°-20°	415.5	12.4
20°-30°	613.3	18.2
30°-40°	686.3	20.4
40°-50°	602.7	17.9
50°-60°	426.5	12.7
60°-70°	248.2	7.4
70°-80°	154.7	4.6
80°-90°	69.2	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°	1175.3	34.9
0°-40°	1861.7	55.4
0°-60°	2890.8	86.0
0°-90°	3363.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3363.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1550	1550	1550	1550	1550	
5°	1543	1539	1539	1547	1552	146
15°	1460	1463	1470	1486	1495	411
25°	1302	1308	1329	1360	1378	598
35°	1069	1073	1098	1132	1154	665
45°	754	762	781	800	809	583
55°	464	474	470	479	488	420
65°	267	246	220	240	269	271
75°	176	151	132	135	155	183
85°	78	81	61	60	63	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1550.2	1550.2	1550.2	1550.2	1550.2
2.5°	1550.2	1547.0	1545.5	1551.0	1554.1
5°	1543.1	1539.2	1539.2	1547.0	1551.7
7.5°	1530.6	1526.7	1531.4	1538.4	1543.1
10°	1512.5	1511.0	1514.1	1523.5	1529.8
12.5°	1489.0	1489.8	1492.9	1507.8	1515.7
15°	1460.0	1463.1	1470.2	1485.9	1495.3
17.5°	1428.6	1431.0	1442.0	1460.0	1473.3
20°	1391.0	1395.7	1409.0	1431.8	1445.1
22.5°	1349.4	1354.9	1371.4	1398.8	1415.3
25°	1302.4	1307.9	1329.1	1360.4	1377.7
27.5°	1249.1	1257.7	1281.2	1315.7	1339.3
30°	1192.6	1199.7	1226.3	1265.5	1285.1
32.5°	1132.2	1140.9	1166.0	1203.6	1220.9
35°	1068.7	1073.4	1098.5	1131.5	1154.2
37.5°	996.6	999.0	1022.5	1053.1	1073.4
40°	919.0	920.5	941.7	970.7	988.8
42.5°	838.2	839.0	861.7	883.7	899.4
45°	753.5	762.2	781.0	799.8	809.2
47.5°	677.5	683.7	701.0	717.5	726.1
50°	598.3	614.0	625.7	634.3	644.5
52.5°	530.1	543.4	546.5	556.7	565.3
55°	464.2	473.6	470.5	479.1	487.7
57.5°	408.5	403.8	393.6	408.5	419.5
60°	356.0	343.4	326.2	346.6	363.0
62.5°	308.9	288.6	267.4	287.8	315.2
65°	267.4	246.2	220.3	239.9	268.9
67.5°	236.0	214.1	183.5	203.1	232.1
70°	212.5	189.8	158.4	174.9	200.7
72.5°	193.7	169.4	141.9	152.9	174.9
75°	175.6	151.3	131.7	134.9	155.3
77.5°	154.5	136.4	120.8	119.2	134.9
80°	129.4	123.9	105.1	102.7	111.3
82.5°	106.6	104.3	86.3	83.9	87.0
85°	77.6	80.8	61.2	59.6	62.7
87.5°	40.8	44.7	32.1	33.7	34.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)