

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: P292494

Luminaire Tested: **22GR-LD5-36-A125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292494
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-L92765-W2A1-U-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3262.0 lumens
Efficiency: N/A
Efficacy: 113.9 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

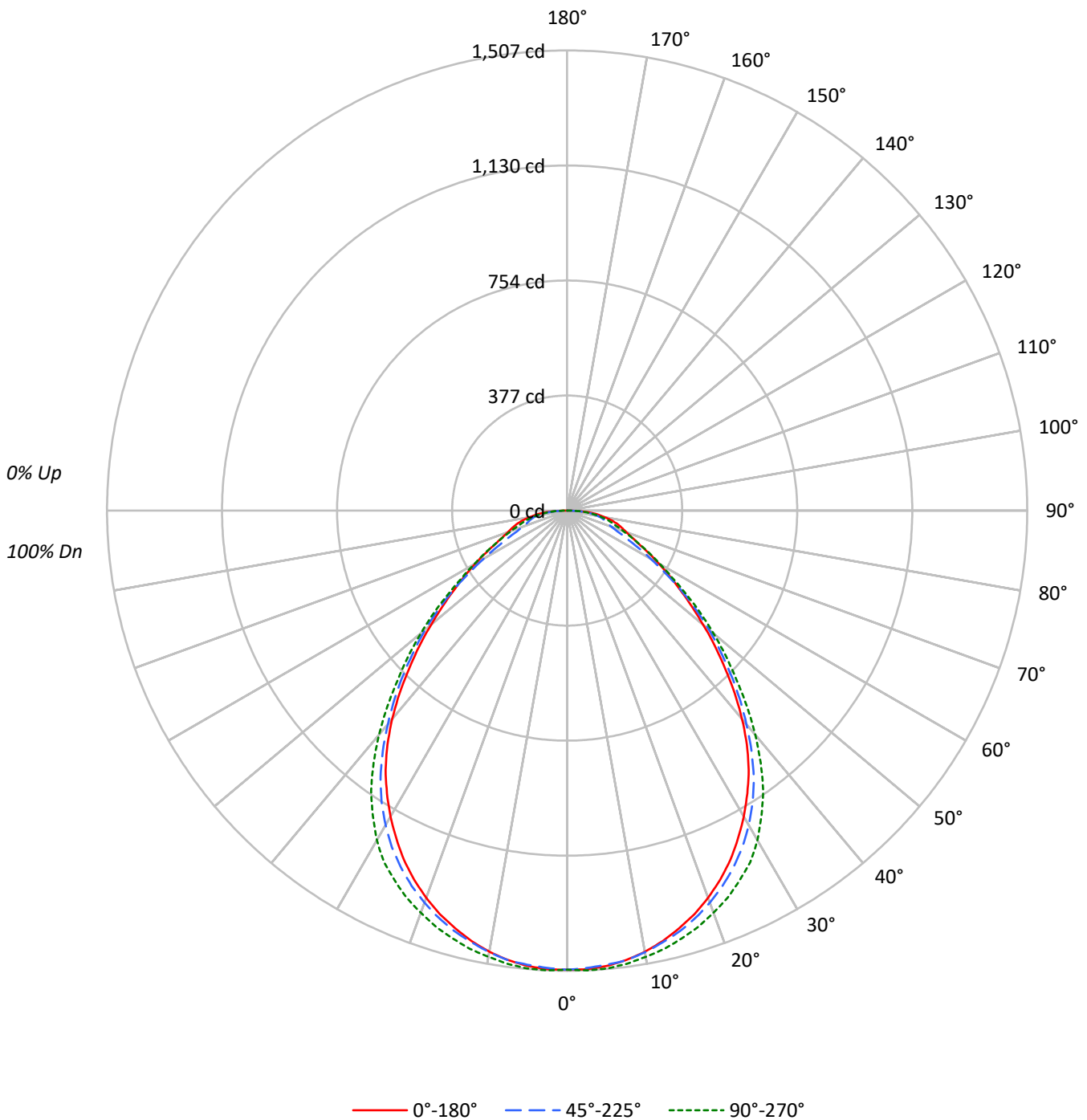
Input Watts (W): 28.644
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4046	4046	4046
5°	4043	4033	4066
10°	4009	4013	4054
15°	3945	3973	4041
20°	3864	3914	4014
25°	3751	3828	3968
30°	3594	3696	3874
35°	3405	3500	3678
40°	3131	3209	3369
45°	2782	2883	2987
50°	2429	2541	2617
55°	2112	2141	2220
60°	1858	1703	1895
65°	1651	1361	1661
70°	1622	1209	1532
75°	1772	1329	1566
80°	1945	1579	1674
85°	2325	1831	1877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.1	4.4
10°-20°	403.0	12.4
20°-30°	594.9	18.2
30°-40°	665.7	20.4
40°-50°	584.6	17.9
50°-60°	413.7	12.7
60°-70°	240.8	7.4
70°-80°	150.1	4.6
80°-90°	67.1	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°	1140.0	34.9
0°-40°	1805.7	55.4
0°-60°	2804.0	86.0
0°-90°	3262.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3262.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1504	1504	1504	1504	1504	
5°	1497	1493	1493	1501	1505	142
15°	1416	1419	1426	1441	1450	399
25°	1263	1269	1289	1320	1336	580
35°	1037	1041	1066	1098	1120	645
45°	731	739	758	776	785	565
55°	450	459	456	465	473	407
65°	259	239	214	233	261	263
75°	170	147	128	131	151	178
85°	75	78	59	58	61	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1503.6	1503.6	1503.6	1503.6	1503.6
2.5°	1503.6	1500.6	1499.1	1504.4	1507.4
5°	1496.8	1493.0	1493.0	1500.6	1505.1
7.5°	1484.6	1480.8	1485.4	1492.2	1496.8
10°	1467.1	1465.6	1468.6	1477.8	1483.8
12.5°	1444.3	1445.1	1448.1	1462.6	1470.2
15°	1416.2	1419.2	1426.0	1441.3	1450.4
17.5°	1385.7	1388.0	1398.7	1416.2	1429.1
20°	1349.2	1353.8	1366.7	1388.8	1401.7
22.5°	1308.9	1314.2	1330.2	1356.8	1372.8
25°	1263.3	1268.6	1289.1	1319.6	1336.3
27.5°	1211.6	1219.9	1242.7	1276.2	1299.0
30°	1156.8	1163.7	1189.5	1227.5	1246.6
32.5°	1098.2	1106.6	1130.9	1167.5	1184.2
35°	1036.6	1041.2	1065.5	1097.5	1119.5
37.5°	966.7	968.9	991.8	1021.4	1041.2
40°	891.4	892.9	913.4	941.6	959.1
42.5°	813.0	813.8	835.9	857.1	872.4
45°	730.9	739.3	757.5	775.8	784.9
47.5°	657.1	663.2	679.9	695.9	704.3
50°	580.3	595.5	606.9	615.3	625.2
52.5°	514.1	527.1	530.1	540.0	548.4
55°	450.2	459.4	456.3	464.7	473.1
57.5°	396.2	391.7	381.8	396.2	406.9
60°	345.3	333.1	316.4	336.2	352.1
62.5°	299.7	279.9	259.3	279.1	305.7
65°	259.3	238.8	213.7	232.7	260.9
67.5°	228.9	207.6	178.0	197.0	225.1
70°	206.1	184.1	153.6	169.6	194.7
72.5°	187.9	164.3	137.7	148.3	169.6
75°	170.4	146.8	127.8	130.8	150.6
77.5°	149.8	132.3	117.1	115.6	130.8
80°	125.5	120.2	101.9	99.6	108.0
82.5°	103.4	101.2	83.7	81.4	84.4
85°	75.3	78.3	59.3	57.8	60.8
87.5°	39.5	43.4	31.2	32.7	33.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)