

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: P292394

Luminaire Tested: **22GR-LD5-36-A125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292394
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-L82765-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: 3516.0 lumens
Efficiency: N/A
Efficacy: 124.8 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

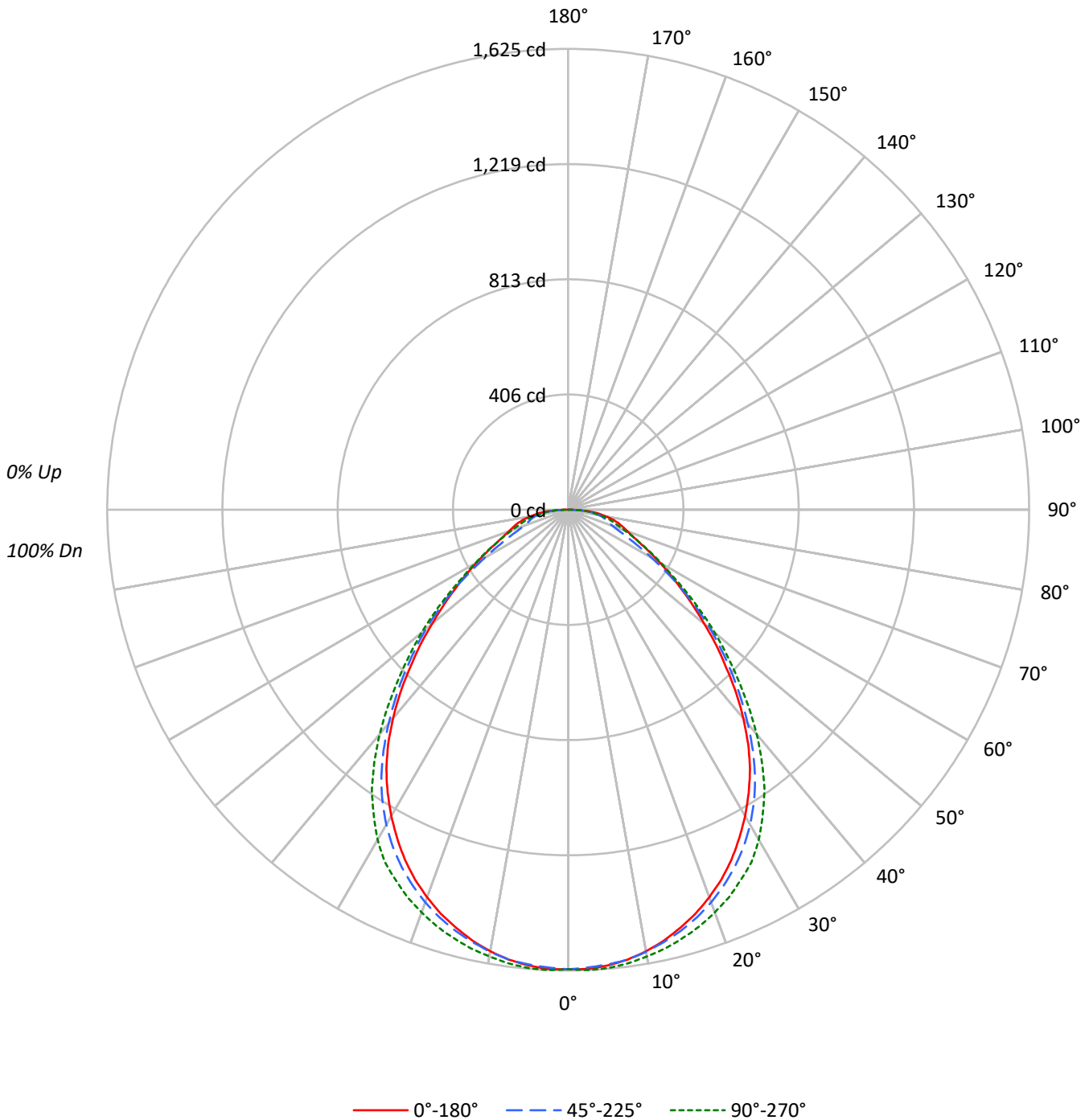
Input Watts (W): 28.179
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4361	4361	4361
5°	4358	4347	4382
10°	4321	4326	4370
15°	4252	4282	4355
20°	4165	4218	4327
25°	4043	4126	4277
30°	3874	3984	4175
35°	3671	3773	3964
40°	3375	3459	3631
45°	2998	3107	3220
50°	2619	2739	2821
55°	2277	2308	2392
60°	2003	1835	2043
65°	1780	1467	1791
70°	1748	1303	1651
75°	1909	1432	1687
80°	2097	1703	1804
85°	2507	1973	2025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.2	4.4
10°-20°	434.4	12.4
20°-30°	641.3	18.2
30°-40°	717.6	20.4
40°-50°	630.1	17.9
50°-60°	445.9	12.7
60°-70°	259.5	7.4
70°-80°	161.7	4.6
80°-90°	72.4	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°	1228.8	34.9
0°-40°	1946.4	55.4
0°-60°	3022.4	86.0
0°-90°	3516.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3516.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1621	1621	1621	1621	1621	
5°	1613	1609	1609	1617	1622	153
15°	1526	1530	1537	1554	1563	430
25°	1362	1367	1390	1422	1440	625
35°	1117	1122	1148	1183	1207	695
45°	788	797	816	836	846	609
55°	485	495	492	501	510	439
65°	280	257	230	251	281	284
75°	184	158	138	141	162	192
85°	81	84	64	62	66	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1620.7	1620.7	1620.7	1620.7	1620.7
2.5°	1620.7	1617.4	1615.8	1621.5	1624.8
5°	1613.3	1609.2	1609.2	1617.4	1622.3
7.5°	1600.2	1596.1	1601.0	1608.4	1613.3
10°	1581.4	1579.7	1583.0	1592.8	1599.4
12.5°	1556.8	1557.6	1560.9	1576.4	1584.6
15°	1526.4	1529.7	1537.1	1553.5	1563.3
17.5°	1493.6	1496.1	1507.6	1526.4	1540.4
20°	1454.3	1459.2	1473.1	1496.9	1510.9
22.5°	1410.8	1416.6	1433.8	1462.5	1479.7
25°	1361.7	1367.4	1389.5	1422.3	1440.4
27.5°	1305.9	1314.9	1339.5	1375.6	1400.2
30°	1246.9	1254.3	1282.1	1323.1	1343.6
32.5°	1183.8	1192.8	1219.0	1258.4	1276.4
35°	1117.4	1122.3	1148.5	1182.9	1206.7
37.5°	1041.9	1044.4	1069.0	1101.0	1122.3
40°	960.8	962.4	984.6	1014.9	1033.7
42.5°	876.3	877.2	900.9	923.9	940.3
45°	787.8	796.8	816.5	836.2	846.0
47.5°	708.3	714.8	732.9	750.1	759.1
50°	625.5	641.9	654.2	663.2	673.9
52.5°	554.2	568.1	571.4	582.0	591.1
55°	485.3	495.1	491.9	500.9	509.9
57.5°	427.1	422.2	411.5	427.1	438.6
60°	372.2	359.1	341.0	362.3	379.6
62.5°	323.0	301.7	279.5	300.9	329.6
65°	279.5	257.4	230.4	250.9	281.2
67.5°	246.8	223.8	191.8	212.3	242.7
70°	222.2	198.4	165.6	182.8	209.9
72.5°	202.5	177.1	148.4	159.9	182.8
75°	183.6	158.2	137.7	141.0	162.3
77.5°	161.5	142.6	126.2	124.6	141.0
80°	135.3	129.5	109.9	107.4	116.4
82.5°	111.5	109.0	90.2	87.7	91.0
85°	81.2	84.4	63.9	62.3	65.6
87.5°	42.6	46.7	33.6	35.3	36.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)