

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: P292492

Luminaire Tested: **22GR-LD5-36-A125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292492
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-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3080.0 lumens
Efficiency: N/A
Efficacy: 109.3 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

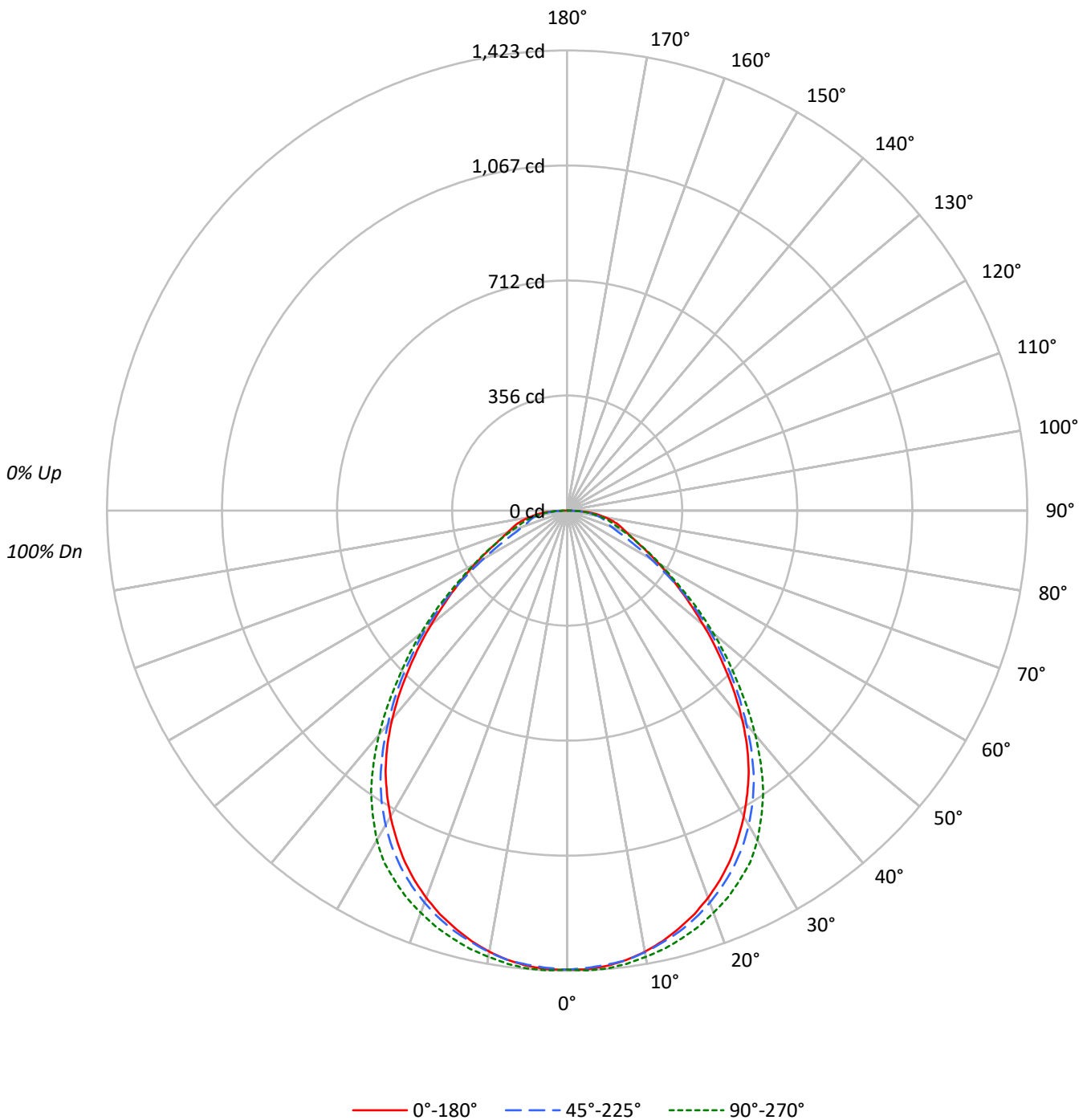
Input Watts (W): 28.179
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3820	3820	3820
5°	3818	3808	3839
10°	3785	3789	3828
15°	3725	3751	3815
20°	3648	3696	3790
25°	3542	3614	3746
30°	3394	3490	3657
35°	3215	3305	3473
40°	2956	3030	3181
45°	2626	2722	2820
50°	2294	2399	2471
55°	1994	2022	2096
60°	1755	1608	1790
65°	1559	1285	1568
70°	1531	1142	1446
75°	1673	1254	1478
80°	1836	1491	1581
85°	2195	1729	1772



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.2	4.4
10°-20°	380.5	12.4
20°-30°	561.7	18.2
30°-40°	628.6	20.4
40°-50°	552.0	17.9
50°-60°	390.6	12.7
60°-70°	227.3	7.4
70°-80°	141.7	4.6
80°-90°	63.4	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°	1076.4	34.9
0°-40°	1705.0	55.4
0°-60°	2647.6	86.0
0°-90°	3080.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3080.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1420	1420	1420	1420	1420	
5°	1413	1410	1410	1417	1421	134
15°	1337	1340	1346	1361	1370	377
25°	1193	1198	1217	1246	1262	548
35°	979	983	1006	1036	1057	609
45°	690	698	715	732	741	534
55°	425	434	431	439	447	384
65°	245	226	202	220	246	248
75°	161	139	121	124	142	168
85°	71	74	56	55	57	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1419.7	1419.7	1419.7	1419.7	1419.7
2.5°	1419.7	1416.9	1415.4	1420.4	1423.3
5°	1413.3	1409.7	1409.7	1416.9	1421.2
7.5°	1401.8	1398.2	1402.5	1409.0	1413.3
10°	1385.3	1383.8	1386.7	1395.3	1401.1
12.5°	1363.7	1364.4	1367.3	1380.9	1388.1
15°	1337.1	1340.0	1346.5	1360.8	1369.5
17.5°	1308.4	1310.6	1320.6	1337.1	1349.4
20°	1273.9	1278.3	1290.5	1311.3	1323.5
22.5°	1235.9	1240.9	1256.0	1281.1	1296.2
25°	1192.8	1197.8	1217.2	1245.9	1261.7
27.5°	1144.0	1151.9	1173.4	1205.0	1226.6
30°	1092.3	1098.7	1123.1	1159.0	1177.0
32.5°	1037.0	1044.9	1067.8	1102.3	1118.1
35°	978.8	983.1	1006.1	1036.3	1057.1
37.5°	912.7	914.9	936.4	964.4	983.1
40°	841.6	843.1	862.5	889.0	905.6
42.5°	767.7	768.4	789.2	809.3	823.7
45°	690.1	698.0	715.2	732.5	741.1
47.5°	620.5	626.2	642.0	657.1	665.0
50°	547.9	562.3	573.1	581.0	590.3
52.5°	485.5	497.7	500.5	509.9	517.8
55°	425.1	433.7	430.9	438.8	446.7
57.5°	374.1	369.8	360.5	374.1	384.2
60°	326.0	314.5	298.7	317.4	332.5
62.5°	282.9	264.3	244.9	263.6	288.7
65°	244.9	225.5	201.8	219.7	246.3
67.5°	216.2	196.0	168.0	186.0	212.6
70°	194.6	173.8	145.1	160.1	183.8
72.5°	177.4	155.1	130.0	140.0	160.1
75°	160.9	138.6	120.6	123.5	142.2
77.5°	141.5	125.0	110.6	109.2	123.5
80°	118.5	113.5	96.2	94.1	102.0
82.5°	97.7	95.5	79.0	76.8	79.7
85°	71.1	74.0	56.0	54.6	57.4
87.5°	37.3	40.9	29.4	30.9	31.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)