

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: P292392

Luminaire Tested: **22GR-LD5-36-A125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292392
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-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3304.0 lumens
Efficiency: N/A
Efficacy: 117.6 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

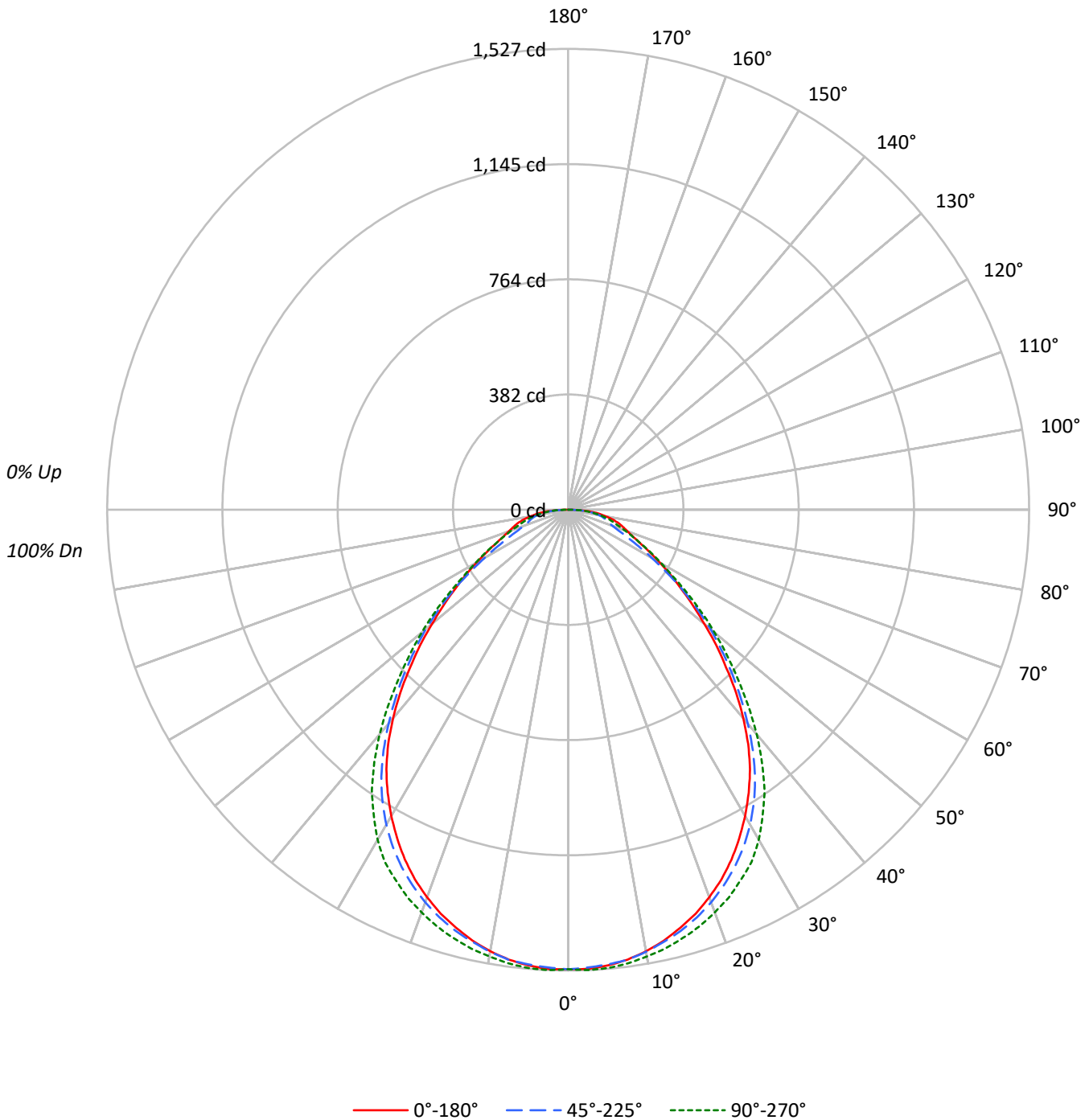
Input Watts (W): 28.086
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4098	4098	4098
5°	4095	4085	4118
10°	4060	4065	4107
15°	3996	4024	4093
20°	3914	3964	4066
25°	3799	3877	4019
30°	3641	3744	3923
35°	3449	3546	3725
40°	3171	3250	3412
45°	2817	2920	3025
50°	2461	2573	2651
55°	2139	2168	2248
60°	1882	1725	1920
65°	1673	1379	1682
70°	1643	1224	1552
75°	1795	1345	1586
80°	1970	1599	1695
85°	2356	1856	1902



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.9	4.4
10°-20°	408.2	12.4
20°-30°	602.6	18.2
30°-40°	674.3	20.4
40°-50°	592.1	17.9
50°-60°	419.0	12.7
60°-70°	243.9	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°	1154.7	34.9
0°-40°	1829.0	55.4
0°-60°	2840.1	86.0
0°-90°	3304.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3304.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1523	1523	1523	1523	1523	
5°	1516	1512	1512	1520	1524	144
15°	1434	1438	1444	1460	1469	404
25°	1280	1285	1306	1337	1354	588
35°	1050	1055	1079	1112	1134	653
45°	740	749	767	786	795	573
55°	456	465	462	471	479	412
65°	263	242	216	236	264	266
75°	173	149	129	132	152	180
85°	76	79	60	58	62	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1523.0	1523.0	1523.0	1523.0	1523.0
2.5°	1523.0	1519.9	1518.4	1523.8	1526.8
5°	1516.0	1512.2	1512.2	1519.9	1524.5
7.5°	1503.7	1499.9	1504.5	1511.4	1516.0
10°	1486.0	1484.5	1487.5	1496.8	1503.0
12.5°	1462.9	1463.7	1466.7	1481.4	1489.1
15°	1434.4	1437.5	1444.4	1459.8	1469.1
17.5°	1403.6	1405.9	1416.7	1434.4	1447.5
20°	1366.6	1371.2	1384.3	1406.7	1419.8
22.5°	1325.8	1331.2	1347.3	1374.3	1390.5
25°	1279.5	1284.9	1305.7	1336.6	1353.5
27.5°	1227.2	1235.6	1258.8	1292.6	1315.8
30°	1171.7	1178.6	1204.8	1243.3	1262.6
32.5°	1112.4	1120.9	1145.5	1182.5	1199.4
35°	1050.0	1054.6	1079.3	1111.6	1134.0
37.5°	979.1	981.4	1004.5	1034.6	1054.6
40°	902.8	904.4	925.2	953.7	971.4
42.5°	823.5	824.3	846.6	868.2	883.6
45°	740.3	748.8	767.3	785.8	795.0
47.5°	665.6	671.7	688.7	704.9	713.3
50°	587.8	603.2	614.7	623.2	633.2
52.5°	520.8	533.9	536.9	546.9	555.4
55°	456.0	465.3	462.2	470.7	479.2
57.5°	401.4	396.7	386.7	401.4	412.1
60°	349.7	337.4	320.5	340.5	356.7
62.5°	303.5	283.5	262.7	282.7	309.7
65°	262.7	241.9	216.5	235.7	264.2
67.5°	231.9	210.3	180.3	199.5	228.0
70°	208.8	186.4	155.6	171.8	197.2
72.5°	190.3	166.4	139.4	150.2	171.8
75°	172.6	148.7	129.4	132.5	152.5
77.5°	151.8	134.0	118.6	117.1	132.5
80°	127.1	121.7	103.2	100.9	109.4
82.5°	104.8	102.5	84.7	82.4	85.5
85°	76.3	79.3	60.1	58.5	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)