

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: P292389

Luminaire Tested: **22GR-LD5-32-A125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292389
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-LD5-32-A125-UNV-L82765-W2A1-U-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3335.0 lumens
Efficiency: N/A
Efficacy: 132.3 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

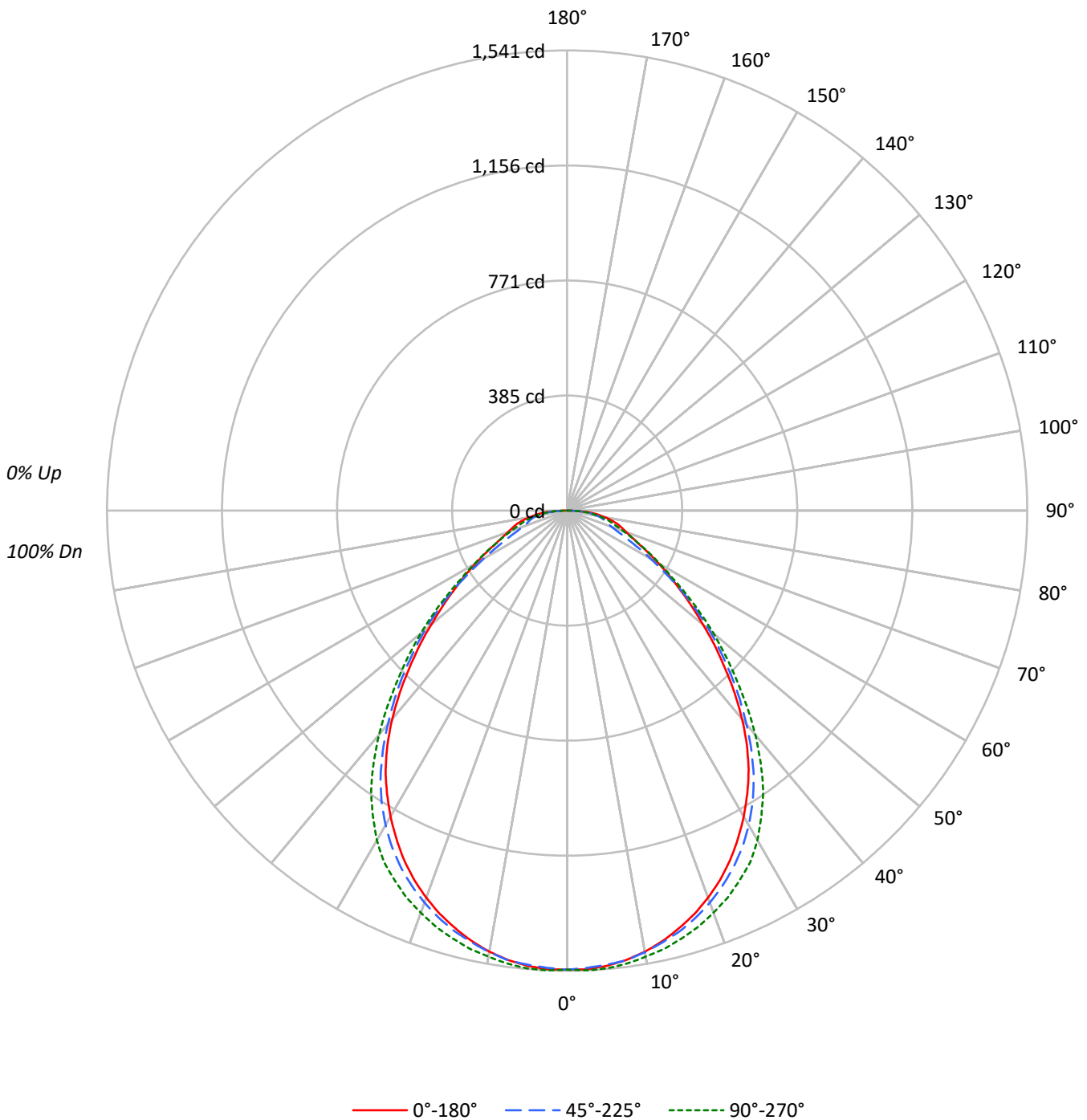
Input Watts (W): 25.203
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4137	4137	4137
5°	4134	4123	4157
10°	4098	4103	4145
15°	4033	4062	4131
20°	3950	4001	4104
25°	3835	3913	4056
30°	3675	3779	3960
35°	3482	3579	3760
40°	3201	3281	3444
45°	2844	2947	3054
50°	2484	2598	2676
55°	2160	2189	2269
60°	1900	1741	1938
65°	1689	1391	1698
70°	1658	1236	1566
75°	1811	1358	1601
80°	1988	1615	1711
85°	2377	1874	1920



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.3	4.4
10°-20°	412.0	12.4
20°-30°	608.2	18.2
30°-40°	680.6	20.4
40°-50°	597.7	17.9
50°-60°	422.9	12.7
60°-70°	246.2	7.4
70°-80°	153.4	4.6
80°-90°	68.6	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°	1165.6	34.9
0°-40°	1846.2	55.4
0°-60°	2866.8	86.0
0°-90°	3335.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3335.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1537	1537	1537	1537	1537	
5°	1530	1526	1526	1534	1539	145
15°	1448	1451	1458	1474	1483	408
25°	1292	1297	1318	1349	1366	593
35°	1060	1064	1089	1122	1145	659
45°	747	756	774	793	802	578
55°	460	470	466	475	484	416
65°	265	244	218	238	267	269
75°	174	150	131	134	154	182
85°	77	80	61	59	62	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1537.3	1537.3	1537.3	1537.3	1537.3
2.5°	1537.3	1534.2	1532.6	1538.0	1541.2
5°	1530.3	1526.4	1526.4	1534.2	1538.8
7.5°	1517.8	1513.9	1518.6	1525.6	1530.3
10°	1499.9	1498.4	1501.5	1510.8	1517.1
12.5°	1476.6	1477.4	1480.5	1495.3	1503.1
15°	1447.8	1451.0	1458.0	1473.5	1482.8
17.5°	1416.7	1419.1	1430.0	1447.8	1461.1
20°	1379.4	1384.1	1397.3	1419.9	1433.1
22.5°	1338.2	1343.7	1360.0	1387.2	1403.5
25°	1291.6	1297.0	1318.0	1349.1	1366.2
27.5°	1238.7	1247.2	1270.6	1304.8	1328.1
30°	1182.7	1189.7	1216.1	1255.0	1274.4
32.5°	1122.8	1131.4	1156.3	1193.6	1210.7
35°	1059.8	1064.5	1089.4	1122.0	1144.6
37.5°	988.3	990.6	1014.0	1044.3	1064.5
40°	911.3	912.9	933.9	962.6	980.5
42.5°	831.2	832.0	854.6	876.3	891.9
45°	747.3	755.8	774.5	793.1	802.5
47.5°	671.8	678.0	695.2	711.5	720.0
50°	593.3	608.8	620.5	629.1	639.2
52.5°	525.6	538.9	542.0	552.1	560.6
55°	460.3	469.7	466.5	475.1	483.7
57.5°	405.1	400.5	390.3	405.1	416.0
60°	353.0	340.6	323.5	343.7	360.0
62.5°	306.4	286.1	265.2	285.4	312.6
65°	265.2	244.2	218.5	237.9	266.7
67.5°	234.1	212.3	182.0	201.4	230.2
70°	210.7	188.2	157.1	173.4	199.1
72.5°	192.1	168.0	140.7	151.6	173.4
75°	174.2	150.1	130.6	133.7	154.0
77.5°	153.2	135.3	119.7	118.2	133.7
80°	128.3	122.9	104.2	101.9	110.4
82.5°	105.8	103.4	85.5	83.2	86.3
85°	77.0	80.1	60.7	59.1	62.2
87.5°	40.4	44.3	31.9	33.4	34.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)