

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: P292417

Luminaire Tested: **22GR-LD5-43-A125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292417
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-LD5-43-A125-UNV-L82765-W2A1-U-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4517.0 lumens
Efficiency: N/A
Efficacy: 124.9 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

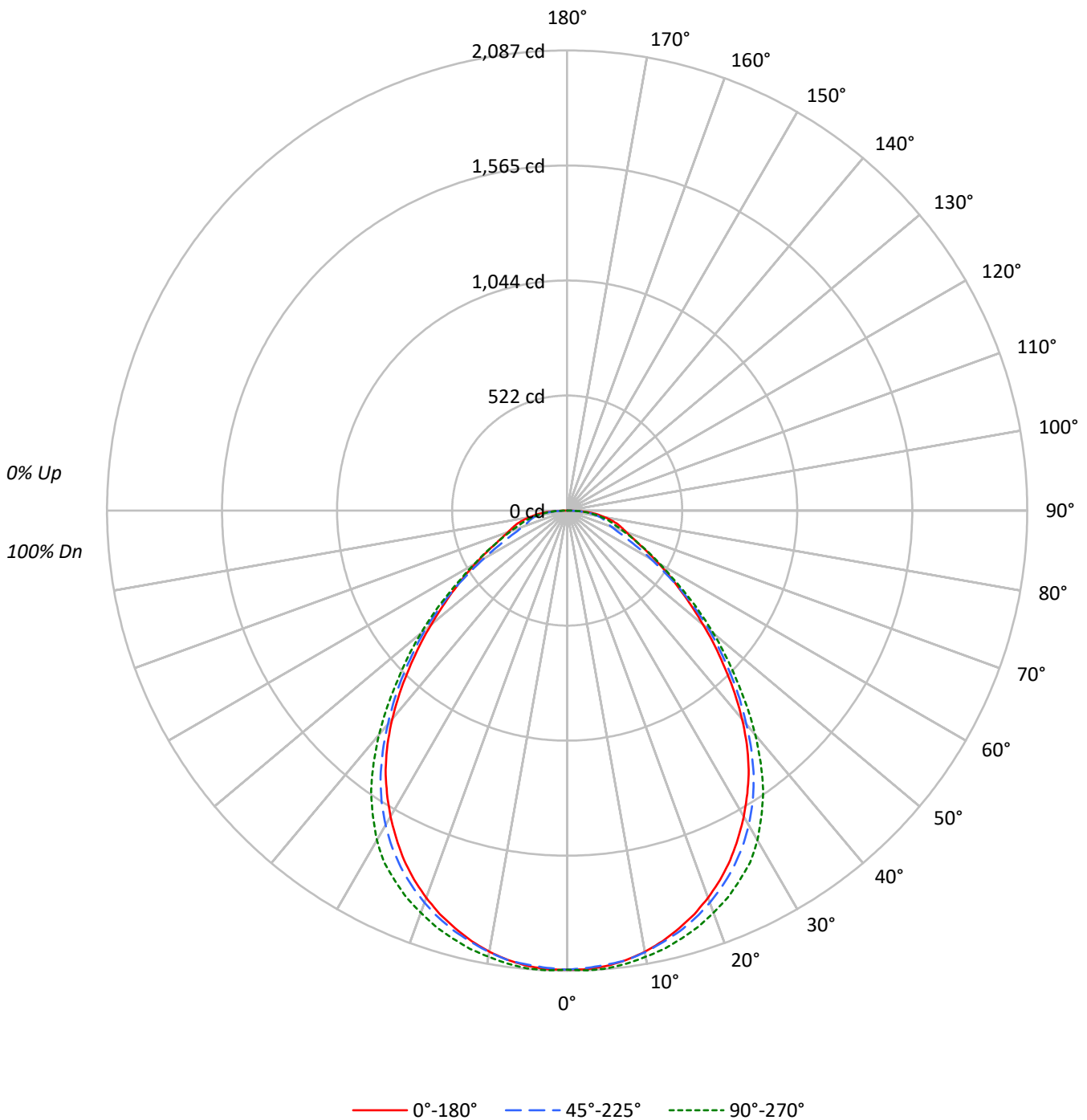
Input Watts (W): 36.177
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5603	5603	5603
5°	5599	5585	5630
10°	5551	5557	5614
15°	5463	5501	5595
20°	5350	5420	5558
25°	5194	5300	5494
30°	4978	5118	5363
35°	4716	4847	5093
40°	4336	4443	4665
45°	3852	3992	4136
50°	3364	3518	3624
55°	2925	2965	3073
60°	2573	2358	2624
65°	2287	1884	2300
70°	2245	1674	2121
75°	2453	1839	2168
80°	2693	2187	2317
85°	3220	2535	2603



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.8	4.4
10°-20°	558.0	12.4
20°-30°	823.8	18.2
30°-40°	921.8	20.4
40°-50°	809.5	17.9
50°-60°	572.8	12.7
60°-70°	333.4	7.4
70°-80°	207.8	4.6
80°-90°	93.0	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°	1578.6	34.9
0°-40°	2500.5	55.4
0°-60°	3882.8	86.0
0°-90°	4517.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4517.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2082	2082	2082	2082	2082	
5°	2073	2067	2067	2078	2084	197
15°	1961	1965	1975	1996	2008	553
25°	1749	1757	1785	1827	1850	803
35°	1436	1442	1476	1520	1550	893
45°	1012	1024	1049	1074	1087	783
55°	624	636	632	644	655	564
65°	359	331	296	322	361	364
75°	236	203	177	181	208	246
85°	104	108	82	80	84	106
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2082.1	2082.1	2082.1	2082.1	2082.1
2.5°	2082.1	2077.9	2075.8	2083.2	2087.4
5°	2072.6	2067.4	2067.4	2077.9	2084.2
7.5°	2055.8	2050.5	2056.8	2066.3	2072.6
10°	2031.6	2029.5	2033.7	2046.3	2054.7
12.5°	2000.0	2001.0	2005.2	2025.2	2035.8
15°	1961.0	1965.2	1974.7	1995.8	2008.4
17.5°	1918.9	1922.0	1936.8	1961.0	1978.9
20°	1868.3	1874.6	1892.5	1923.1	1941.0
22.5°	1812.5	1819.9	1842.0	1878.9	1901.0
25°	1749.3	1756.7	1785.1	1827.2	1850.4
27.5°	1677.7	1689.3	1720.9	1767.2	1798.8
30°	1601.9	1611.3	1647.2	1699.8	1726.1
32.5°	1520.8	1532.4	1566.1	1616.6	1639.8
35°	1435.5	1441.8	1475.5	1519.7	1550.3
37.5°	1338.6	1341.7	1373.3	1414.4	1441.8
40°	1234.3	1236.4	1264.9	1303.8	1328.0
42.5°	1125.8	1126.9	1157.4	1186.9	1208.0
45°	1012.1	1023.7	1049.0	1074.2	1086.9
47.5°	909.9	918.4	941.5	963.6	975.2
50°	803.6	824.6	840.4	852.0	865.7
52.5°	711.9	729.8	734.1	747.7	759.3
55°	623.5	636.1	631.9	643.5	655.1
57.5°	548.7	542.4	528.7	548.7	563.4
60°	478.1	461.3	438.1	465.5	487.6
62.5°	414.9	387.6	359.1	386.5	423.4
65°	359.1	330.7	295.9	322.3	361.2
67.5°	317.0	287.5	246.4	272.8	311.7
70°	285.4	254.9	212.7	234.9	269.6
72.5°	260.1	227.5	190.6	205.4	234.9
75°	235.9	203.3	176.9	181.1	208.5
77.5°	207.5	183.3	162.2	160.1	181.1
80°	173.8	166.4	141.1	138.0	149.5
82.5°	143.2	140.1	115.8	112.7	116.9
85°	104.3	108.5	82.1	80.0	84.3
87.5°	54.8	60.0	43.2	45.3	46.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)