

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: P292512

Luminaire Tested: **22GR-LD5-43-A125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292512
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-L92765-W2A1-U-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3926.0 lumens
Efficiency: N/A
Efficacy: 109.6 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

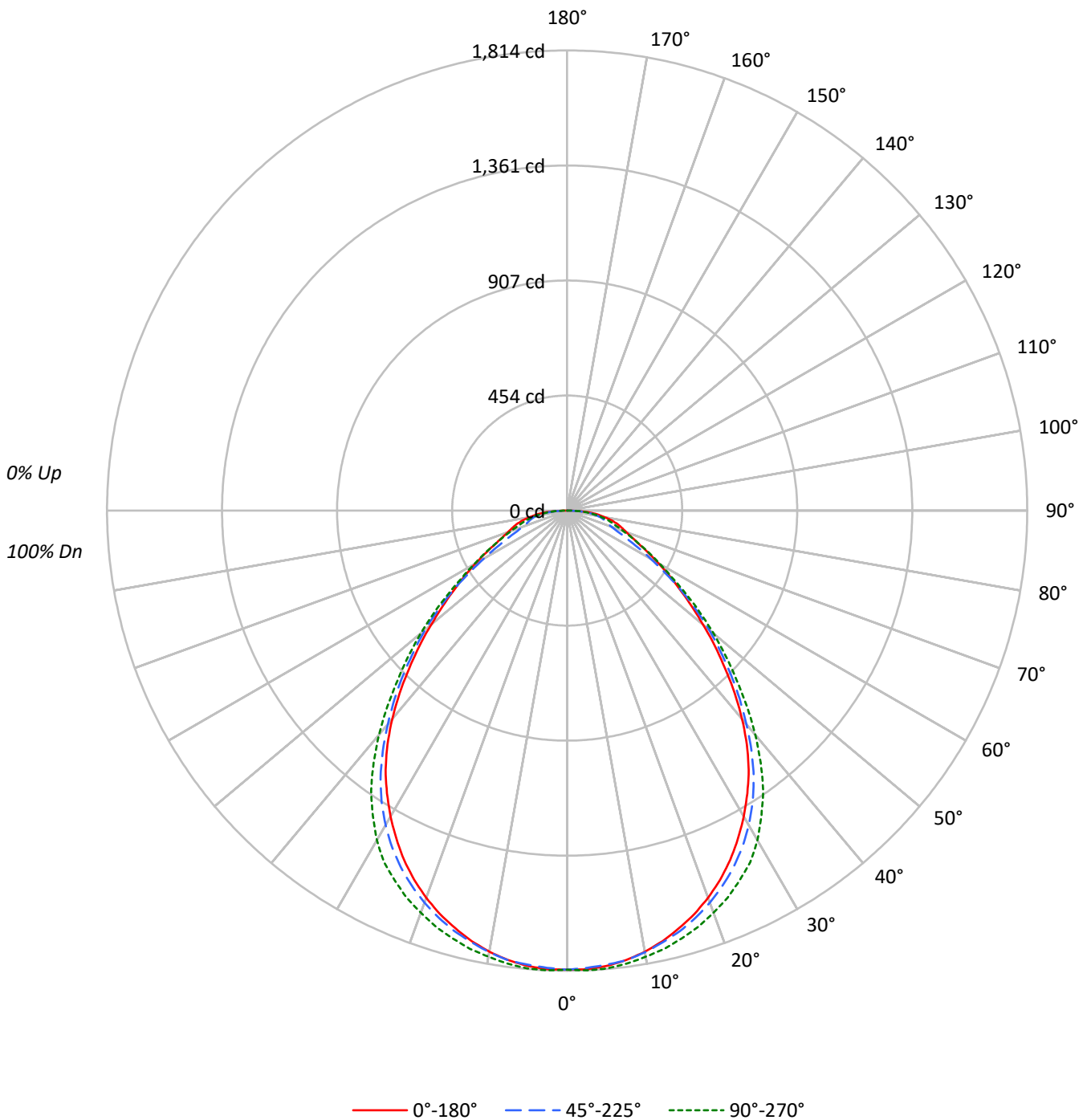
Input Watts (W): 35.805
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4870	4870	4870
5°	4866	4854	4893
10°	4825	4830	4880
15°	4748	4781	4863
20°	4650	4710	4831
25°	4514	4607	4775
30°	4326	4448	4662
35°	4099	4213	4426
40°	3769	3862	4055
45°	3348	3470	3595
50°	2924	3058	3150
55°	2542	2577	2671
60°	2237	2049	2281
65°	1987	1638	1999
70°	1952	1455	1843
75°	2131	1599	1884
80°	2340	1901	2015
85°	2797	2205	2260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.0	4.4
10°-20°	485.0	12.4
20°-30°	716.0	18.2
30°-40°	801.2	20.4
40°-50°	703.6	17.9
50°-60°	497.9	12.7
60°-70°	289.8	7.4
70°-80°	180.6	4.6
80°-90°	80.8	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°	1372.1	34.9
0°-40°	2173.3	55.4
0°-60°	3374.8	86.0
0°-90°	3926.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3926.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1810	1810	1810	1810	1810	
5°	1802	1797	1797	1806	1812	171
15°	1704	1708	1716	1735	1746	480
25°	1520	1527	1552	1588	1608	698
35°	1248	1253	1282	1321	1347	776
45°	880	890	912	934	945	680
55°	542	553	549	559	569	490
65°	312	287	257	280	314	317
75°	205	177	154	157	181	214
85°	91	94	71	70	73	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1809.7	1809.7	1809.7	1809.7	1809.7
2.5°	1809.7	1806.0	1804.2	1810.6	1814.3
5°	1801.5	1796.9	1796.9	1806.0	1811.5
7.5°	1786.8	1782.2	1787.7	1796.0	1801.5
10°	1765.8	1763.9	1767.6	1778.6	1785.9
12.5°	1738.3	1739.2	1742.9	1760.3	1769.4
15°	1704.4	1708.1	1716.3	1734.6	1745.6
17.5°	1667.8	1670.6	1683.4	1704.4	1720.0
20°	1623.9	1629.4	1644.9	1671.5	1687.0
22.5°	1575.4	1581.8	1601.0	1633.0	1652.2
25°	1520.4	1526.8	1551.6	1588.2	1608.3
27.5°	1458.2	1468.3	1495.7	1536.0	1563.5
30°	1392.3	1400.5	1431.6	1477.4	1500.3
32.5°	1321.8	1331.9	1361.2	1405.1	1425.2
35°	1247.7	1253.1	1282.4	1320.9	1347.4
37.5°	1163.4	1166.2	1193.6	1229.3	1253.1
40°	1072.8	1074.6	1099.4	1133.2	1154.3
42.5°	978.5	979.4	1006.0	1031.6	1049.9
45°	879.7	889.7	911.7	933.7	944.7
47.5°	790.9	798.2	818.3	837.6	847.6
50°	698.4	716.7	730.5	740.5	752.4
52.5°	618.8	634.4	638.0	649.9	660.0
55°	541.9	552.9	549.2	559.3	569.4
57.5°	476.9	471.4	459.5	476.9	489.7
60°	415.6	400.9	380.8	404.6	423.8
62.5°	360.7	336.9	312.1	335.9	368.0
65°	312.1	287.4	257.2	280.1	314.0
67.5°	275.5	249.9	214.2	237.1	271.0
70°	248.1	221.5	184.9	204.1	234.3
72.5°	226.1	197.7	165.7	178.5	204.1
75°	205.0	176.7	153.8	157.4	181.2
77.5°	180.3	159.3	141.0	139.1	157.4
80°	151.0	144.6	122.7	119.9	130.0
82.5°	124.5	121.7	100.7	97.9	101.6
85°	90.6	94.3	71.4	69.6	73.2
87.5°	47.6	52.2	37.5	39.4	40.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)