

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: P292415

Luminaire Tested: **22GR-LD5-43-A125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292415
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-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4461.0 lumens
Efficiency: N/A
Efficacy: 123.9 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

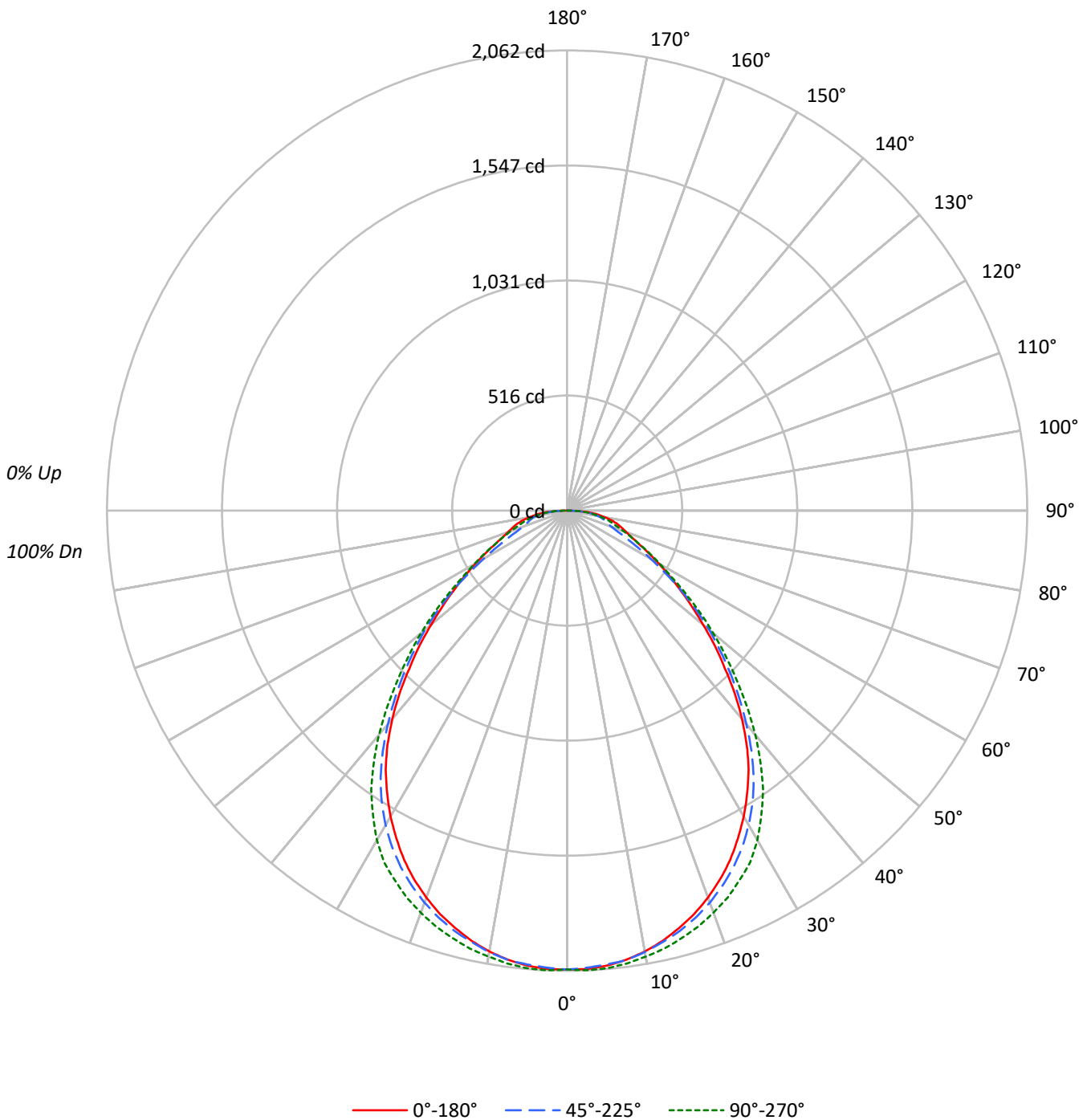
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5533	5533	5533
5°	5529	5515	5560
10°	5482	5488	5545
15°	5395	5433	5526
20°	5284	5353	5489
25°	5130	5235	5426
30°	4916	5055	5297
35°	4657	4787	5029
40°	4282	4388	4607
45°	3804	3943	4085
50°	3322	3475	3579
55°	2889	2928	3035
60°	2541	2329	2592
65°	2259	1861	2272
70°	2218	1653	2095
75°	2423	1816	2141
80°	2659	2160	2289
85°	3180	2504	2569



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.3	4.4
10°-20°	551.1	12.4
20°-30°	813.6	18.2
30°-40°	910.4	20.4
40°-50°	799.5	17.9
50°-60°	565.7	12.7
60°-70°	329.3	7.4
70°-80°	205.2	4.6
80°-90°	91.8	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°	1559.1	34.9
0°-40°	2469.5	55.4
0°-60°	3834.7	86.0
0°-90°	4461.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4461.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2056	2056	2056	2056	2056	
5°	2047	2042	2042	2052	2058	194
15°	1937	1941	1950	1971	1984	546
25°	1728	1735	1763	1805	1828	793
35°	1418	1424	1457	1501	1531	882
45°	1000	1011	1036	1061	1073	773
55°	616	628	624	636	647	557
65°	355	327	292	318	357	360
75°	233	201	175	179	206	243
85°	103	107	81	79	83	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2056.3	2056.3	2056.3	2056.3	2056.3
2.5°	2056.3	2052.1	2050.1	2057.3	2061.5
5°	2046.9	2041.7	2041.7	2052.1	2058.4
7.5°	2030.3	2025.1	2031.3	2040.7	2046.9
10°	2006.4	2004.3	2008.5	2020.9	2029.3
12.5°	1975.2	1976.2	1980.4	2000.1	2010.5
15°	1936.7	1940.8	1950.2	1971.0	1983.5
17.5°	1895.1	1898.2	1912.8	1936.7	1954.4
20°	1845.2	1851.4	1869.1	1899.2	1916.9
22.5°	1790.0	1797.3	1819.2	1855.6	1877.4
25°	1727.6	1734.9	1763.0	1804.6	1827.5
27.5°	1656.9	1668.3	1699.5	1745.3	1776.5
30°	1582.0	1591.4	1626.7	1678.7	1704.7
32.5°	1501.9	1513.4	1546.6	1596.6	1619.5
35°	1417.7	1423.9	1457.2	1500.9	1531.0
37.5°	1322.0	1325.1	1356.3	1396.9	1423.9
40°	1219.0	1221.1	1249.2	1287.7	1311.6
42.5°	1111.9	1112.9	1143.1	1172.2	1193.0
45°	999.5	1011.0	1036.0	1060.9	1073.4
47.5°	898.7	907.0	929.9	951.7	963.1
50°	793.6	814.4	830.0	841.4	855.0
52.5°	703.1	720.8	725.0	738.5	749.9
55°	615.7	628.2	624.1	635.5	646.9
57.5°	541.9	535.7	522.1	541.9	556.5
60°	472.2	455.6	432.7	459.7	481.6
62.5°	409.8	382.8	354.7	381.7	418.1
65°	354.7	326.6	292.3	318.3	356.8
67.5°	313.1	284.0	243.4	269.4	307.9
70°	281.9	251.7	210.1	231.9	266.3
72.5°	256.9	224.7	188.3	202.8	231.9
75°	233.0	200.7	174.7	178.9	205.9
77.5°	204.9	181.0	160.2	158.1	178.9
80°	171.6	164.3	139.4	136.3	147.7
82.5°	141.5	138.3	114.4	111.3	115.5
85°	103.0	107.1	81.1	79.0	83.2
87.5°	54.1	59.3	42.6	44.7	45.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)