

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: P292416

Luminaire Tested: **22GR-LD5-43-A125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292416
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-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: 4505.0 lumens
Efficiency: N/A
Efficacy: 124.5 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

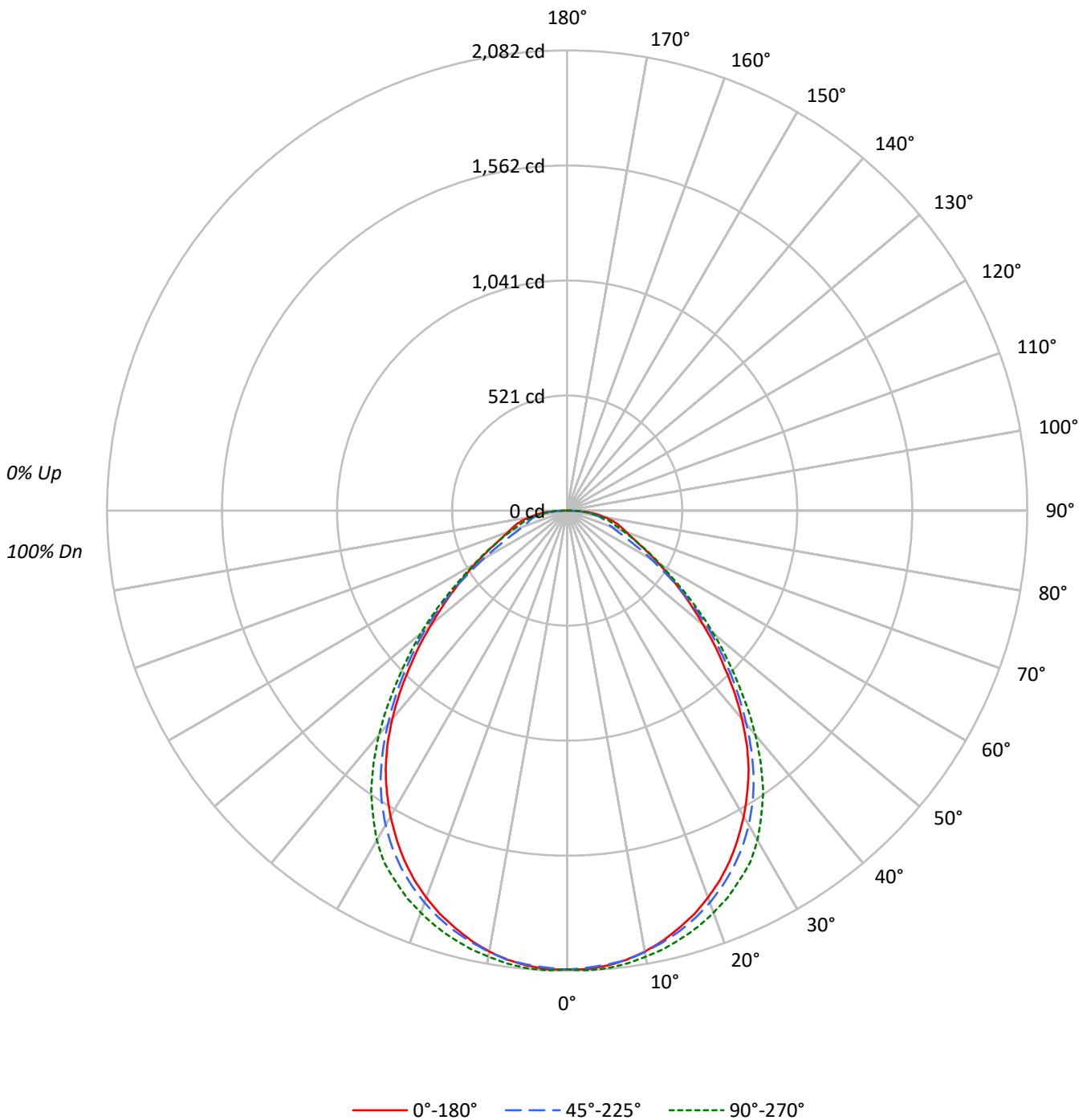
Input Watts (W): 36.177
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5588	5588	5588
5°	5584	5570	5615
10°	5537	5542	5600
15°	5449	5487	5580
20°	5336	5405	5544
25°	5180	5286	5480
30°	4964	5105	5349
35°	4703	4834	5079
40°	4324	4431	4653
45°	3841	3981	4125
50°	3355	3509	3615
55°	2917	2957	3065
60°	2567	2352	2617
65°	2281	1880	2294
70°	2240	1670	2116
75°	2446	1835	2163
80°	2686	2180	2312
85°	3211	2529	2594



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.3	4.4
10°-20°	556.6	12.4
20°-30°	821.6	18.2
30°-40°	919.4	20.4
40°-50°	807.4	17.9
50°-60°	571.3	12.7
60°-70°	332.5	7.4
70°-80°	207.2	4.6
80°-90°	92.7	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°	1574.5	34.9
0°-40°	2493.9	55.4
0°-60°	3872.5	86.0
0°-90°	4505.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4505.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2077	2077	2077	2077	2077	
5°	2067	2062	2062	2072	2079	196
15°	1956	1960	1969	1990	2003	551
25°	1745	1752	1780	1822	1846	801
35°	1432	1438	1472	1516	1546	890
45°	1009	1021	1046	1071	1084	781
55°	622	634	630	642	653	562
65°	358	330	295	321	360	363
75°	235	203	176	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°	2076.6	2076.6	2076.6	2076.6	2076.6
2.5°	2076.6	2072.4	2070.3	2077.6	2081.8
5°	2067.1	2061.9	2061.9	2072.4	2078.7
7.5°	2050.3	2045.1	2051.4	2060.8	2067.1
10°	2026.2	2024.1	2028.3	2040.9	2049.3
12.5°	1994.7	1995.7	1999.9	2019.9	2030.4
15°	1955.8	1960.0	1969.4	1990.5	2003.1
17.5°	1913.8	1916.9	1931.6	1955.8	1973.6
20°	1863.4	1869.7	1887.5	1918.0	1935.8
22.5°	1807.7	1815.0	1837.1	1873.9	1895.9
25°	1744.7	1752.0	1780.4	1822.4	1845.5
27.5°	1673.2	1684.8	1716.3	1762.5	1794.0
30°	1597.6	1607.1	1642.8	1695.3	1721.6
32.5°	1516.7	1528.3	1561.9	1612.3	1635.4
35°	1431.7	1438.0	1471.6	1515.7	1546.1
37.5°	1335.0	1338.2	1369.7	1410.6	1438.0
40°	1231.0	1233.1	1261.5	1300.4	1324.5
42.5°	1122.8	1123.9	1154.4	1183.8	1204.8
45°	1009.4	1021.0	1046.2	1071.4	1084.0
47.5°	907.5	915.9	939.0	961.1	972.6
50°	801.4	822.4	838.2	849.7	863.4
52.5°	710.1	727.9	732.1	745.8	757.3
55°	621.8	634.4	630.2	641.8	653.3
57.5°	547.2	540.9	527.3	547.2	561.9
60°	476.9	460.1	437.0	464.3	486.3
62.5°	413.8	386.5	358.2	385.5	422.2
65°	358.2	329.8	295.2	321.4	360.3
67.5°	316.2	286.8	245.8	272.0	310.9
70°	284.7	254.2	212.2	234.2	268.9
72.5°	259.4	226.9	190.1	204.8	234.2
75°	235.3	202.7	176.5	180.7	208.0
77.5°	206.9	182.8	161.8	159.7	180.7
80°	173.3	166.0	140.7	137.6	149.2
82.5°	142.9	139.7	115.5	112.4	116.6
85°	104.0	108.2	81.9	79.8	84.0
87.5°	54.6	59.9	43.1	45.2	46.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)