

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: P292352

Luminaire Tested: **22GR-LD5-43-A125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292352
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-L83050-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4333.0 lumens
Efficiency: N/A
Efficacy: 123.3 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

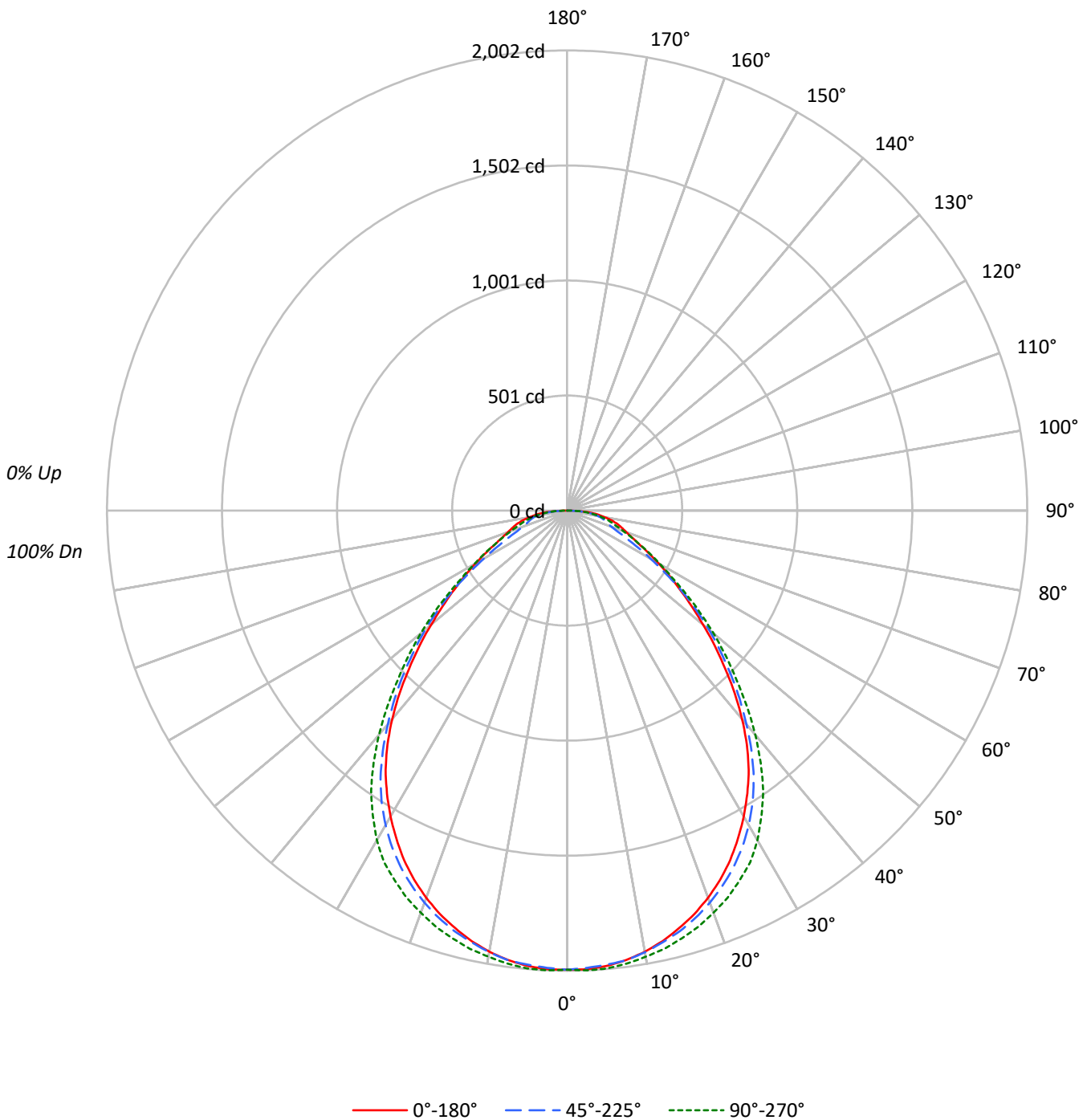
Input Watts (W): 35.154
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5375	5375	5375
5°	5371	5357	5401
10°	5325	5331	5386
15°	5241	5277	5367
20°	5132	5199	5332
25°	4983	5084	5270
30°	4775	4910	5145
35°	4524	4650	4885
40°	4159	4262	4475
45°	3695	3829	3968
50°	3227	3375	3476
55°	2806	2844	2948
60°	2469	2262	2518
65°	2194	1808	2206
70°	2154	1606	2035
75°	2353	1764	2079
80°	2583	2098	2224
85°	3088	2433	2495



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.8	4.4
10°-20°	535.3	12.4
20°-30°	790.3	18.2
30°-40°	884.3	20.4
40°-50°	776.6	17.9
50°-60°	549.5	12.7
60°-70°	319.8	7.4
70°-80°	199.3	4.6
80°-90°	89.2	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°	1514.3	34.9
0°-40°	2398.6	55.4
0°-60°	3724.7	86.0
0°-90°	4333.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4333.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1997	1997	1997	1997	1997	
5°	1988	1983	1983	1993	1999	189
15°	1881	1885	1894	1914	1927	530
25°	1678	1685	1712	1753	1775	771
35°	1377	1383	1415	1458	1487	856
45°	971	982	1006	1030	1043	751
55°	598	610	606	617	628	541
65°	344	317	284	309	346	349
75°	226	195	170	174	200	236
85°	100	104	79	77	81	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1997.3	1997.3	1997.3	1997.3	1997.3
2.5°	1997.3	1993.3	1991.2	1998.3	2002.3
5°	1988.2	1983.2	1983.2	1993.3	1999.3
7.5°	1972.0	1967.0	1973.1	1982.1	1988.2
10°	1948.8	1946.8	1950.8	1962.9	1971.0
12.5°	1918.5	1919.5	1923.5	1942.7	1952.8
15°	1881.1	1885.2	1894.3	1914.5	1926.6
17.5°	1840.7	1843.7	1857.9	1881.1	1898.3
20°	1792.2	1798.3	1815.5	1844.7	1861.9
22.5°	1738.7	1745.7	1767.0	1802.3	1823.5
25°	1678.1	1685.1	1712.4	1752.8	1775.0
27.5°	1609.4	1620.5	1650.8	1695.2	1725.5
30°	1536.6	1545.7	1580.1	1630.6	1655.8
32.5°	1458.8	1469.9	1502.3	1550.8	1573.0
35°	1377.0	1383.1	1415.4	1457.8	1487.1
37.5°	1284.0	1287.1	1317.4	1356.8	1383.1
40°	1184.0	1186.1	1213.3	1250.7	1273.9
42.5°	1080.0	1081.0	1110.3	1138.6	1158.8
45°	970.9	982.0	1006.2	1030.5	1042.6
47.5°	872.9	881.0	903.2	924.4	935.5
50°	770.8	791.0	806.2	817.3	830.4
52.5°	682.9	700.1	704.2	717.3	728.4
55°	598.1	610.2	606.2	617.3	628.4
57.5°	526.3	520.3	507.2	526.3	540.5
60°	458.7	442.5	420.3	446.5	467.8
62.5°	398.0	371.8	344.5	370.8	406.1
65°	344.5	317.2	283.9	309.1	346.5
67.5°	304.1	275.8	236.4	261.7	299.0
70°	273.8	244.5	204.1	225.3	258.6
72.5°	249.5	218.2	182.9	197.0	225.3
75°	226.3	195.0	169.7	173.8	200.0
77.5°	199.0	175.8	155.6	153.6	173.8
80°	166.7	159.6	135.4	132.3	143.5
82.5°	137.4	134.4	111.1	108.1	112.1
85°	100.0	104.1	78.8	76.8	80.8
87.5°	52.5	57.6	41.4	43.4	44.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)