

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: P292418

Luminaire Tested: **22GR-LD5-43-A125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292418
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-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4529.0 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

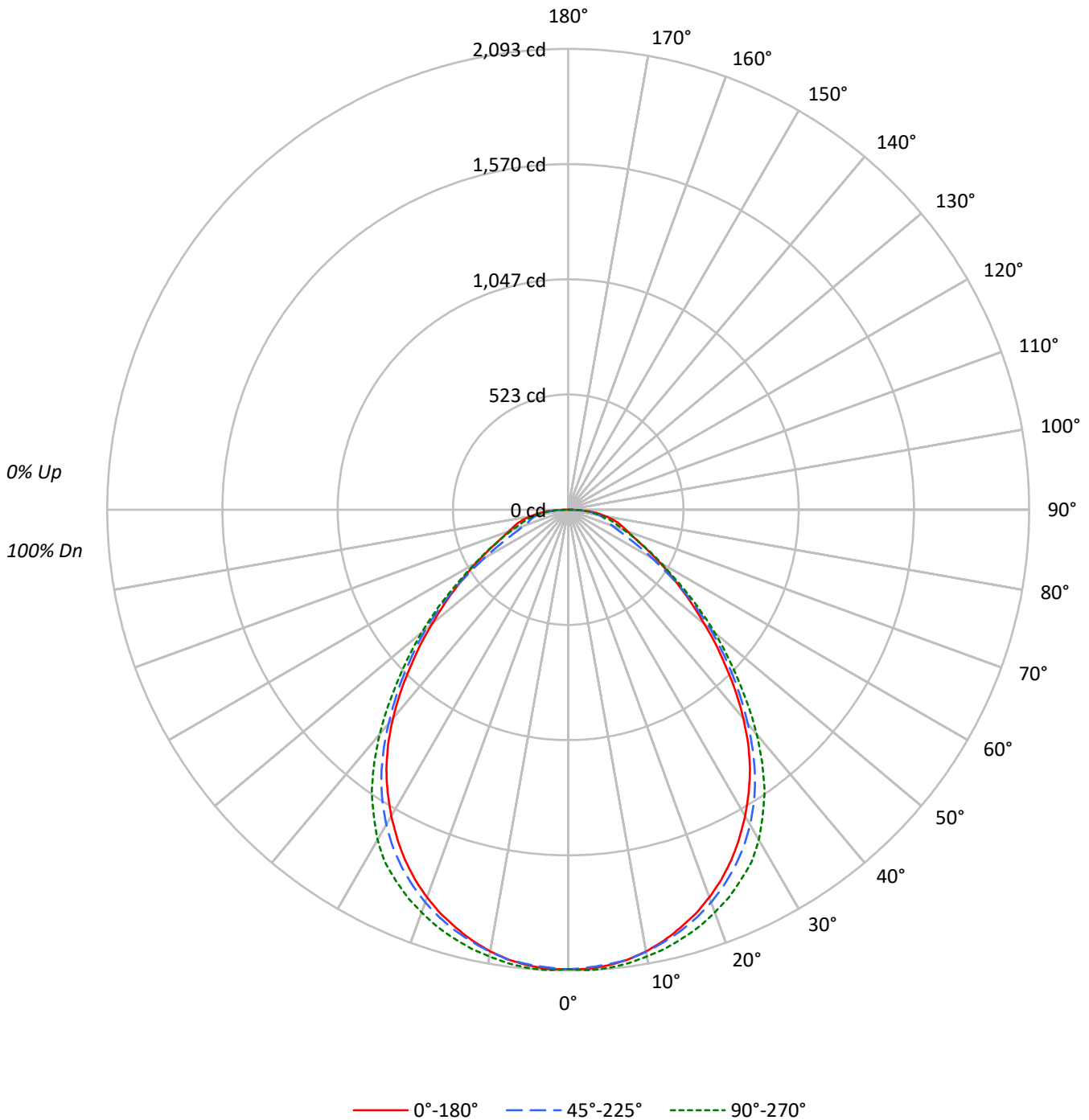
Input Watts (W): 36.735
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5618	5618	5618
5°	5613	5599	5645
10°	5566	5572	5629
15°	5478	5516	5610
20°	5365	5434	5573
25°	5208	5315	5509
30°	4991	5132	5378
35°	4728	4860	5106
40°	4347	4455	4678
45°	3862	4002	4147
50°	3373	3528	3634
55°	2933	2973	3081
60°	2580	2364	2631
65°	2293	1889	2306
70°	2252	1678	2127
75°	2459	1844	2174
80°	2700	2193	2323
85°	3226	2544	2609



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.3	4.4
10°-20°	559.5	12.4
20°-30°	826.0	18.2
30°-40°	924.3	20.4
40°-50°	811.7	17.9
50°-60°	574.3	12.7
60°-70°	334.3	7.4
70°-80°	208.3	4.6
80°-90°	93.2	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°	1582.8	34.9
0°-40°	2507.1	55.4
0°-60°	3893.1	86.0
0°-90°	4529.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4529.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2088	2088	2088	2088	2088	
5°	2078	2073	2073	2083	2090	197
15°	1966	1970	1980	2001	2014	554
25°	1754	1761	1790	1832	1855	806
35°	1439	1446	1479	1524	1554	895
45°	1015	1026	1052	1077	1090	785
55°	625	638	634	645	657	565
65°	360	332	297	323	362	365
75°	236	204	177	182	209	247
85°	104	109	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°	2087.6	2087.6	2087.6	2087.6	2087.6
2.5°	2087.6	2083.4	2081.3	2088.7	2092.9
5°	2078.1	2072.9	2072.9	2083.4	2089.8
7.5°	2061.2	2056.0	2062.3	2071.8	2078.1
10°	2037.0	2034.8	2039.1	2051.7	2060.2
12.5°	2005.3	2006.3	2010.6	2030.6	2041.2
15°	1966.2	1970.4	1979.9	2001.1	2013.7
17.5°	1924.0	1927.1	1941.9	1966.2	1984.2
20°	1873.3	1879.6	1897.6	1928.2	1946.1
22.5°	1817.3	1824.7	1846.9	1883.8	1906.0
25°	1754.0	1761.4	1789.9	1832.1	1855.3
27.5°	1682.2	1693.8	1725.4	1771.9	1803.6
30°	1606.1	1615.6	1651.5	1704.3	1730.7
32.5°	1524.8	1536.4	1570.2	1620.9	1644.1
35°	1439.3	1445.6	1479.4	1523.8	1554.4
37.5°	1342.1	1345.3	1377.0	1418.2	1445.6
40°	1237.6	1239.7	1268.2	1307.3	1331.6
42.5°	1128.8	1129.9	1160.5	1190.1	1211.2
45°	1014.8	1026.4	1051.7	1077.1	1089.8
47.5°	912.4	920.8	944.0	966.2	977.8
50°	805.7	826.8	842.7	854.3	868.0
52.5°	713.8	731.8	736.0	749.7	761.4
55°	625.1	637.8	633.6	645.2	656.8
57.5°	550.2	543.8	530.1	550.2	564.9
60°	479.4	462.5	439.3	466.7	488.9
62.5°	416.1	388.6	360.1	387.5	424.5
65°	360.1	331.6	296.7	323.1	362.2
67.5°	317.8	288.3	247.1	273.5	312.6
70°	286.2	255.5	213.3	235.5	270.3
72.5°	260.8	228.1	191.1	205.9	235.5
75°	236.5	203.8	177.4	181.6	209.1
77.5°	208.0	183.7	162.6	160.5	181.6
80°	174.2	166.8	141.5	138.3	149.9
82.5°	143.6	140.4	116.2	113.0	117.2
85°	104.5	108.8	82.4	80.3	84.5
87.5°	54.9	60.2	43.3	45.4	46.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)