

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: P292351

Luminaire Tested: **22GR-LD5-43-A125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292351
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-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4095.0 lumens
Efficiency: N/A
Efficacy: 116.8 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

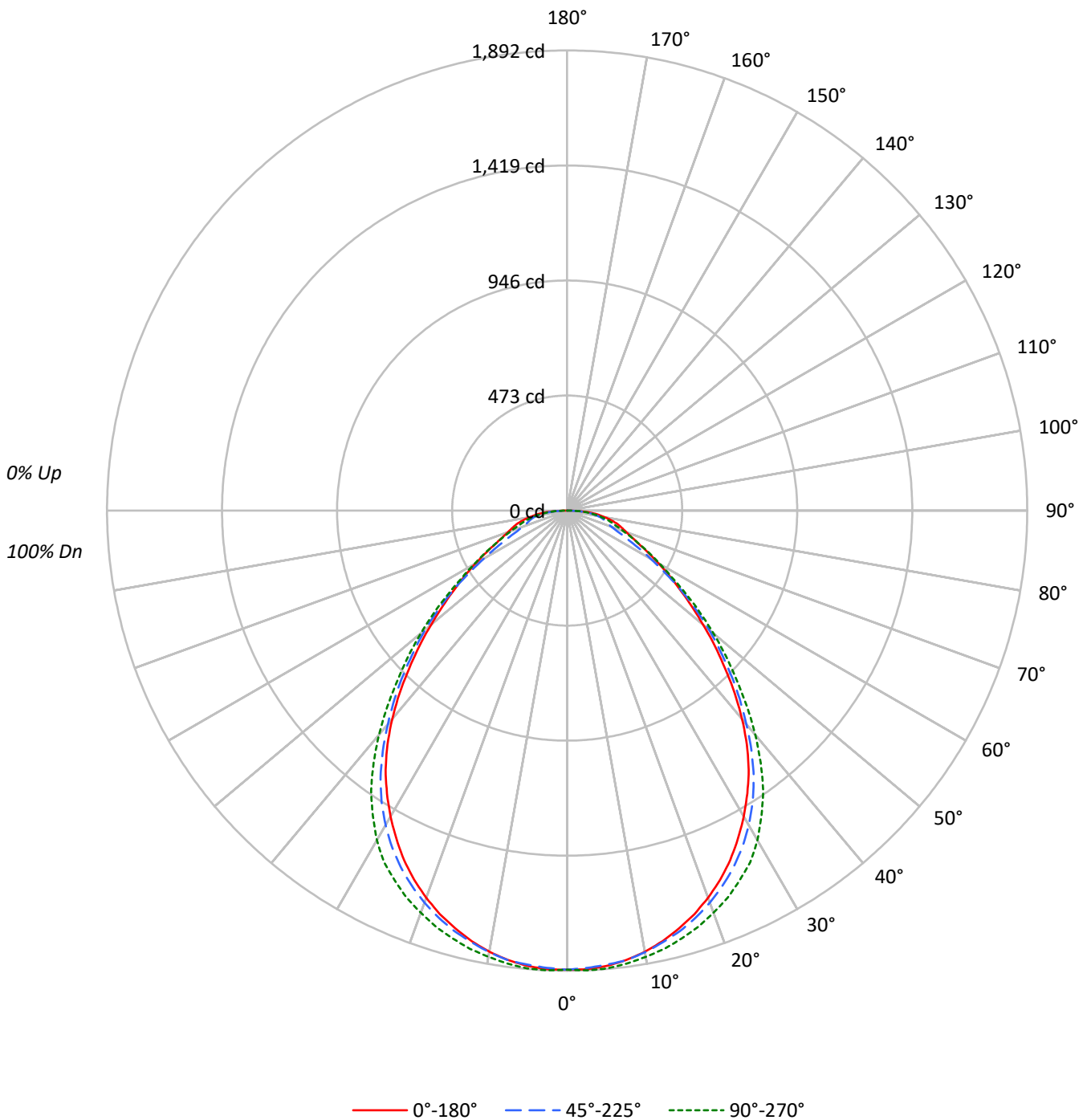
Input Watts (W): 35.061
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5079	5079	5079
5°	5076	5063	5104
10°	5033	5038	5090
15°	4953	4987	5073
20°	4851	4913	5039
25°	4709	4805	4981
30°	4512	4640	4863
35°	4275	4394	4617
40°	3931	4028	4229
45°	3492	3619	3750
50°	3050	3190	3286
55°	2652	2688	2786
60°	2333	2138	2379
65°	2073	1708	2085
70°	2035	1518	1923
75°	2224	1668	1965
80°	2441	1982	2101
85°	2918	2300	2359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.4	4.4
10°-20°	505.9	12.4
20°-30°	746.9	18.2
30°-40°	835.7	20.4
40°-50°	733.9	17.9
50°-60°	519.3	12.7
60°-70°	302.3	7.4
70°-80°	188.4	4.6
80°-90°	84.3	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°	1431.2	34.9
0°-40°	2266.9	55.4
0°-60°	3520.1	86.0
0°-90°	4095.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4095.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1888	1888	1888	1888	1888	
5°	1879	1874	1874	1884	1890	178
15°	1778	1782	1790	1809	1821	501
25°	1586	1593	1618	1656	1678	728
35°	1301	1307	1338	1378	1405	809
45°	918	928	951	974	985	710
55°	565	577	573	583	594	511
65°	326	300	268	292	328	330
75°	214	184	160	164	189	223
85°	94	98	74	73	76	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1887.6	1887.6	1887.6	1887.6	1887.6
2.5°	1887.6	1883.8	1881.9	1888.5	1892.4
5°	1879.0	1874.2	1874.2	1883.8	1889.5
7.5°	1863.7	1858.9	1864.7	1873.3	1879.0
10°	1841.8	1839.9	1843.7	1855.1	1862.8
12.5°	1813.1	1814.1	1817.9	1836.0	1845.6
15°	1777.8	1781.6	1790.2	1809.3	1820.8
17.5°	1739.6	1742.5	1755.8	1777.8	1794.0
20°	1693.8	1699.5	1715.7	1743.4	1759.7
22.5°	1643.2	1649.9	1669.9	1703.3	1723.4
25°	1585.9	1592.6	1618.3	1656.5	1677.5
27.5°	1521.0	1531.5	1560.1	1602.1	1630.8
30°	1452.2	1460.8	1493.3	1541.0	1564.9
32.5°	1378.7	1389.2	1419.8	1465.6	1486.6
35°	1301.4	1307.1	1337.6	1377.7	1405.4
37.5°	1213.5	1216.4	1245.0	1282.3	1307.1
40°	1119.0	1120.9	1146.7	1182.0	1204.0
42.5°	1020.7	1021.6	1049.3	1076.0	1095.1
45°	917.5	928.0	951.0	973.9	985.3
47.5°	824.9	832.6	853.6	873.6	884.1
50°	728.5	747.6	761.9	772.4	784.8
52.5°	645.4	661.7	665.5	677.9	688.4
55°	565.2	576.7	572.9	583.4	593.9
57.5°	497.4	491.7	479.3	497.4	510.8
60°	433.5	418.2	397.2	422.0	442.1
62.5°	376.2	351.4	325.6	350.4	383.8
65°	325.6	299.8	268.3	292.2	327.5
67.5°	287.4	260.7	223.4	247.3	282.6
70°	258.7	231.1	192.9	212.9	244.4
72.5°	235.8	206.2	172.8	186.2	212.9
75°	213.9	184.3	160.4	164.2	189.0
77.5°	188.1	166.1	147.0	145.1	164.2
80°	157.5	150.9	127.9	125.1	135.6
82.5°	129.8	127.0	105.0	102.2	106.0
85°	94.5	98.3	74.5	72.6	76.4
87.5°	49.6	54.4	39.1	41.1	42.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)