

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: P291179

Luminaire Tested: **14GR-LD5-43-A125-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-43-A125-UNV-L83050-W2A1-U-5000K
Description: GRLED 1x4 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: 4679.0 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

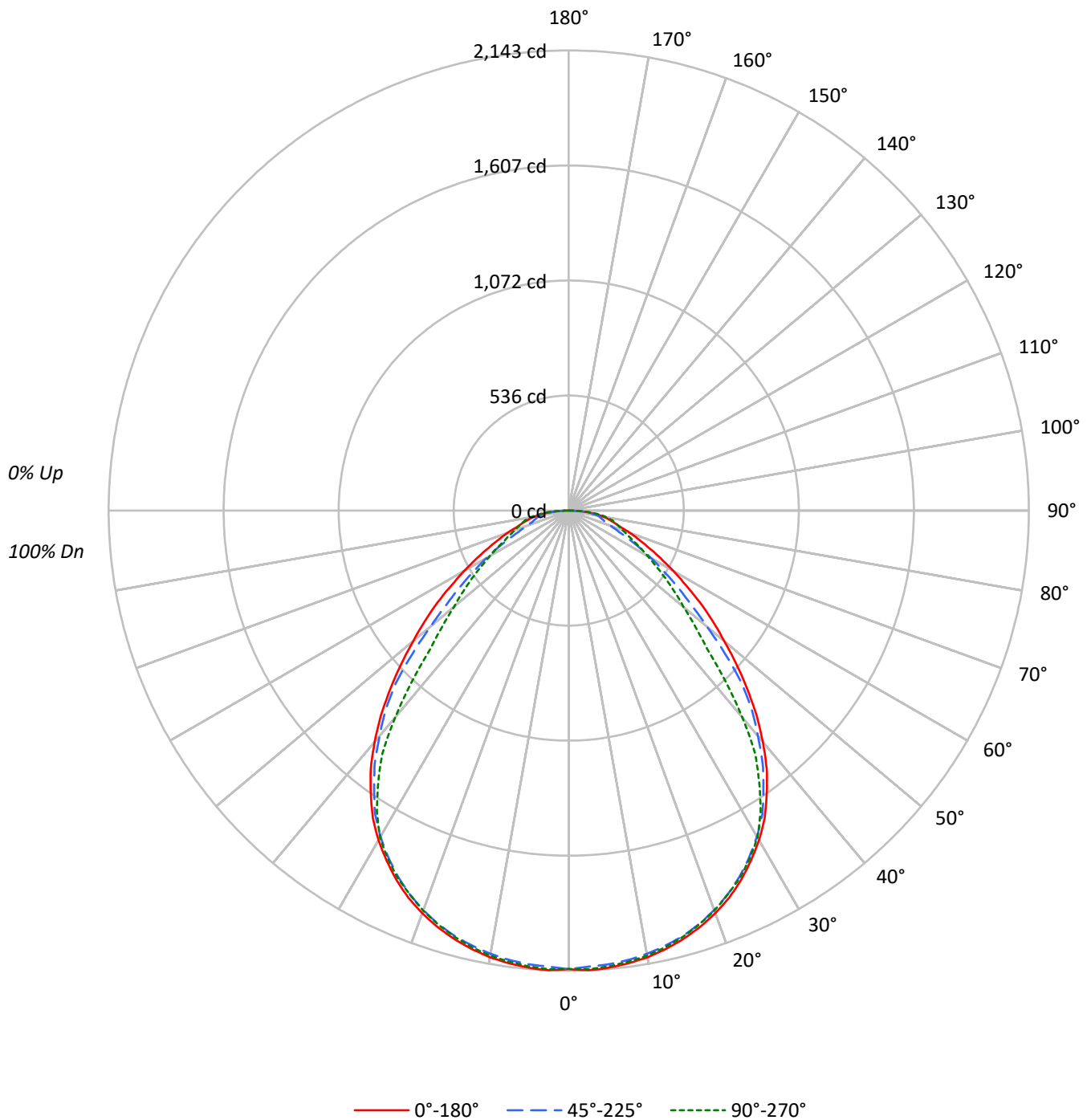
Input Watts (W): 38.316
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86			
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74			
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64			
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50			
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44			
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40			
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36			
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5746	5746	5746
5°	5773	5730	5756
10°	5772	5728	5751
15°	5752	5716	5724
20°	5713	5670	5676
25°	5637	5586	5602
30°	5508	5447	5461
35°	5281	5192	5081
40°	4938	4816	4419
45°	4470	4342	3466
50°	3954	3513	2922
55°	3499	2888	2577
60°	3020	2390	2284
65°	2627	1901	2101
70°	2375	1631	2101
75°	2280	1704	2348
80°	2540	2170	2741
85°	2680	2313	3285



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.5	4.3
10°-20°	580.4	12.4
20°-30°	868.6	18.6
30°-40°	983.3	21.0
40°-50°	837.5	17.9
50°-60°	567.1	12.1
60°-70°	338.6	7.2
70°-80°	211.5	4.5
80°-90°	89.4	1.9
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°	1651.6	35.3
0°-40°	2634.9	56.3
0°-60°	4039.5	86.3
0°-90°	4679.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4679.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2135	2135	2135	2135	2135	
5°	2137	2132	2121	2134	2131	203
15°	2065	2057	2052	2065	2055	582
25°	1898	1893	1881	1890	1887	873
35°	1608	1598	1580	1564	1547	1002
45°	1174	1178	1141	973	911	906
55°	746	704	616	549	549	667
65°	412	344	298	319	330	416
75°	219	196	164	215	226	237
85°	87	80	75	94	106	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2135.2	2135.2	2135.2	2135.2	2135.2
2.5°	2142.8	2137.3	2125.4	2139.5	2137.3
5°	2137.3	2131.9	2121.1	2134.1	2130.8
7.5°	2126.5	2121.1	2111.3	2124.3	2118.9
10°	2112.4	2105.9	2096.1	2110.2	2104.8
12.5°	2090.7	2084.2	2075.5	2089.6	2082.0
15°	2064.6	2057.0	2051.6	2064.6	2054.8
17.5°	2033.1	2026.6	2019.0	2032.1	2021.2
20°	1995.1	1989.7	1979.9	1987.5	1982.1
22.5°	1951.7	1944.1	1934.4	1943.0	1935.4
25°	1898.5	1893.1	1881.2	1889.9	1886.6
27.5°	1837.7	1834.5	1820.4	1831.2	1825.8
30°	1772.6	1763.9	1753.1	1756.3	1757.4
32.5°	1697.7	1686.9	1678.2	1670.6	1663.0
35°	1607.6	1597.9	1580.5	1564.2	1546.8
37.5°	1514.3	1501.2	1483.9	1448.1	1426.3
40°	1405.7	1399.2	1371.0	1321.1	1258.1
42.5°	1295.0	1288.5	1263.5	1151.7	1083.3
45°	1174.5	1177.8	1140.9	972.6	910.7
47.5°	1059.4	1068.1	987.8	830.4	797.8
50°	944.4	954.2	839.1	717.5	698.0
52.5°	843.4	835.8	715.3	629.6	620.9
55°	745.7	704.5	615.5	549.3	549.3
57.5°	645.9	587.3	523.2	480.9	480.9
60°	561.2	488.5	444.0	415.7	424.4
62.5°	483.0	406.0	368.0	362.6	373.4
65°	412.5	344.1	298.5	319.1	330.0
67.5°	355.0	294.2	245.3	288.7	295.3
70°	301.8	256.2	207.3	265.9	267.0
72.5°	252.9	225.8	178.0	241.0	245.3
75°	219.3	196.5	163.9	214.9	225.8
77.5°	192.1	168.3	150.9	185.6	206.2
80°	163.9	137.9	140.0	156.3	176.9
82.5°	125.9	106.4	110.7	128.1	144.4
85°	86.8	80.3	74.9	94.4	106.4
87.5°	46.7	43.4	38.0	53.2	54.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)