

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: P291177

Luminaire Tested: **14GR-LD5-43-A125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291177
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-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4635.0 lumens
Efficiency: N/A
Efficacy: 124.0 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

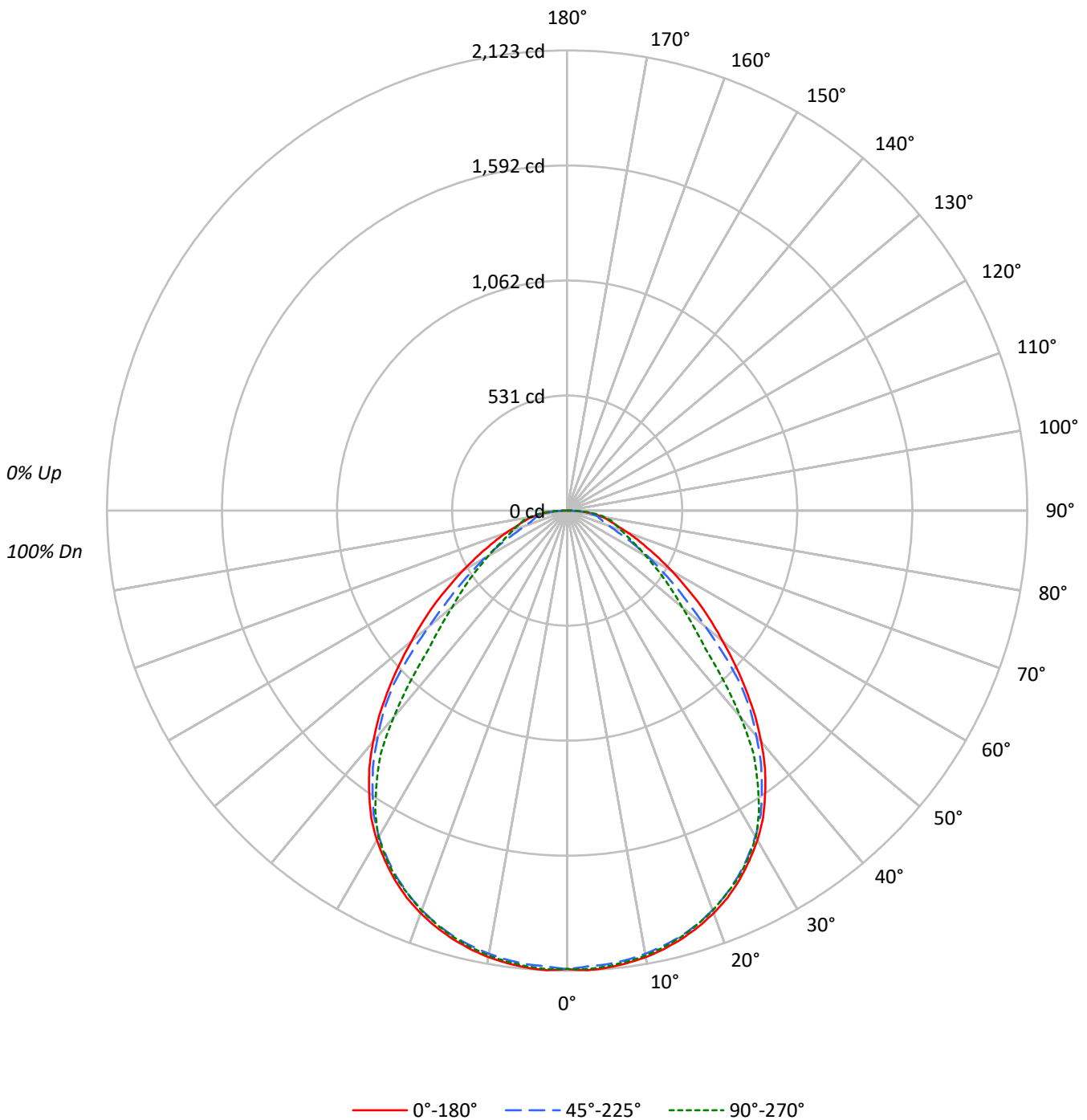
Input Watts (W): 37.386
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5692	5692	5692
5°	5719	5676	5702
10°	5718	5674	5697
15°	5698	5662	5671
20°	5660	5617	5623
25°	5584	5533	5549
30°	5456	5396	5409
35°	5231	5143	5034
40°	4892	4771	4378
45°	4428	4301	3433
50°	3916	3480	2894
55°	3466	2860	2553
60°	2992	2367	2263
65°	2602	1883	2082
70°	2352	1616	2081
75°	2258	1688	2326
80°	2517	2149	2717
85°	2655	2291	3254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.6	4.3
10°-20°	575.0	12.4
20°-30°	860.5	18.6
30°-40°	974.0	21.0
40°-50°	829.7	17.9
50°-60°	561.8	12.1
60°-70°	335.4	7.2
70°-80°	209.5	4.5
80°-90°	88.6	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°	1636.0	35.3
0°-40°	2610.1	56.3
0°-60°	4001.5	86.3
0°-90°	4635.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4635.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2115	2115	2115	2115	2115	
5°	2117	2112	2101	2114	2111	201
15°	2045	2038	2032	2045	2036	577
25°	1881	1875	1864	1872	1869	865
35°	1592	1583	1566	1550	1532	993
45°	1164	1167	1130	964	902	897
55°	739	698	610	544	544	661
65°	409	341	296	316	327	412
75°	217	195	162	213	224	235
85°	86	80	74	94	105	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2115.1	2115.1	2115.1	2115.1	2115.1
2.5°	2122.6	2117.2	2105.4	2119.4	2117.2
5°	2117.2	2111.9	2101.1	2114.0	2110.8
7.5°	2106.5	2101.1	2091.4	2104.3	2099.0
10°	2092.5	2086.1	2076.4	2090.4	2085.0
12.5°	2071.0	2064.6	2056.0	2069.9	2062.4
15°	2045.2	2037.7	2032.3	2045.2	2035.5
17.5°	2014.0	2007.6	2000.0	2012.9	2002.2
20°	1976.4	1971.0	1961.3	1968.9	1963.5
22.5°	1933.4	1925.8	1916.2	1924.8	1917.2
25°	1880.7	1875.3	1863.5	1872.1	1868.9
27.5°	1820.5	1817.2	1803.3	1814.0	1808.6
30°	1755.9	1747.3	1736.6	1739.8	1740.9
32.5°	1681.8	1671.0	1662.4	1654.9	1647.3
35°	1592.5	1582.8	1565.6	1549.5	1532.3
37.5°	1500.0	1487.1	1469.9	1434.4	1412.9
40°	1392.5	1386.0	1358.1	1308.6	1246.3
42.5°	1282.8	1276.4	1251.6	1140.9	1073.1
45°	1163.5	1166.7	1130.1	963.5	902.2
47.5°	1049.5	1058.1	978.5	822.6	790.3
50°	935.5	945.2	831.2	710.8	691.4
52.5°	835.5	828.0	708.6	623.7	615.1
55°	738.7	697.9	609.7	544.1	544.1
57.5°	639.8	581.7	518.3	476.4	476.4
60°	555.9	483.9	439.8	411.8	420.4
62.5°	478.5	402.2	364.5	359.1	369.9
65°	408.6	340.9	295.7	316.1	326.9
67.5°	351.6	291.4	243.0	286.0	292.5
70°	298.9	253.8	205.4	263.4	264.5
72.5°	250.5	223.7	176.3	238.7	243.0
75°	217.2	194.6	162.4	212.9	223.7
77.5°	190.3	166.7	149.5	183.9	204.3
80°	162.4	136.6	138.7	154.8	175.3
82.5°	124.7	105.4	109.7	126.9	143.0
85°	86.0	79.6	74.2	93.6	105.4
87.5°	46.2	43.0	37.6	52.7	53.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)