

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: P291139

Luminaire Tested: **14GR-LD5-43-A-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291139
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-43-A-UNV-L92765-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3895.0 lumens
Efficiency: N/A
Efficacy: 105.2 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

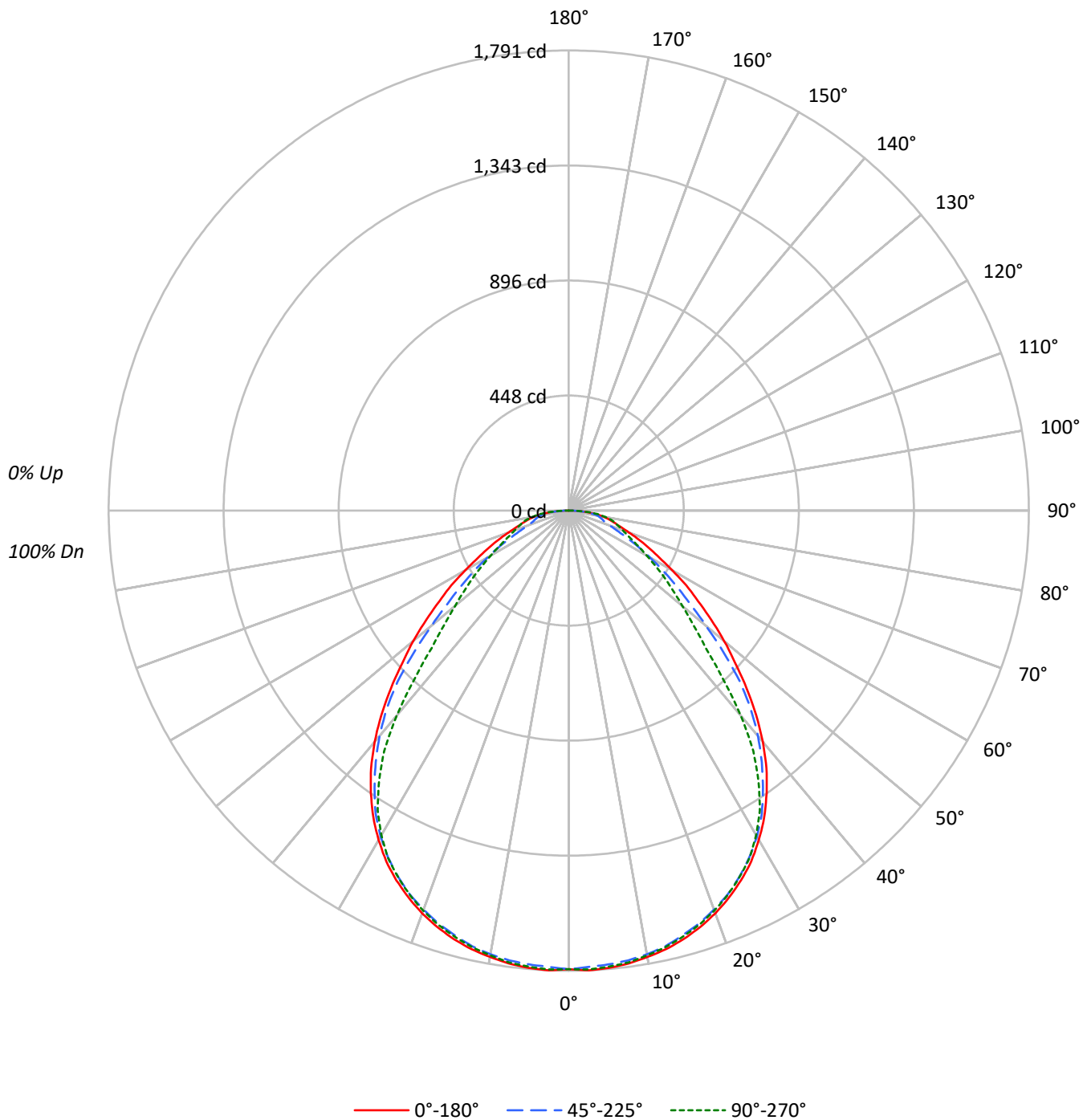
Input Watts (W): 37.014
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
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	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74		
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64		
4	86	75	67	61	84	74	67	61	72	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	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40		
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36		
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33		
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4803	4803	4803
5°	4826	4790	4814
10°	4820	4791	4803
15°	4811	4768	4783
20°	4777	4733	4746
25°	4714	4668	4671
30°	4599	4551	4531
35°	4410	4330	4232
40°	4128	4023	3661
45°	3728	3587	2861
50°	3306	2912	2420
55°	2886	2389	2135
60°	2503	1967	1884
65°	2195	1578	1740
70°	1958	1338	1751
75°	1909	1411	1957
80°	2117	1781	2242
85°	2208	1899	2624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.4	4.3
10°-20°	485.1	12.5
20°-30°	725.7	18.6
30°-40°	819.2	21.0
40°-50°	695.0	17.8
50°-60°	470.2	12.1
60°-70°	280.7	7.2
70°-80°	175.8	4.5
80°-90°	73.9	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°	1380.2	35.4
0°-40°	2199.4	56.5
0°-60°	3364.6	86.4
0°-90°	3895.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3895.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1785	1785	1785	1785	1785	
5°	1787	1781	1773	1786	1782	170
15°	1727	1723	1712	1723	1717	487
25°	1588	1582	1572	1580	1573	730
35°	1342	1333	1318	1306	1288	836
45°	980	983	943	808	752	755
55°	615	586	509	456	455	554
65°	345	286	248	264	273	344
75°	184	164	136	179	188	197
85°	72	68	62	80	85	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1784.9	1784.9	1784.9	1784.9	1784.9
2.5°	1791.2	1785.8	1777.6	1788.5	1787.6
5°	1786.7	1781.2	1773.1	1785.8	1782.1
7.5°	1778.5	1774.0	1765.9	1777.6	1774.0
10°	1764.1	1760.4	1753.2	1763.2	1757.7
12.5°	1748.7	1746.0	1736.9	1746.0	1740.5
15°	1727.0	1723.3	1711.6	1723.3	1717.0
17.5°	1699.8	1695.3	1685.4	1695.3	1689.9
20°	1668.2	1662.7	1652.8	1662.7	1657.3
22.5°	1630.2	1625.6	1616.6	1625.6	1618.4
25°	1587.6	1582.2	1572.3	1579.5	1573.2
27.5°	1538.8	1531.6	1522.5	1527.9	1524.3
30°	1480.0	1471.0	1464.6	1464.6	1458.3
32.5°	1415.8	1409.4	1398.6	1392.2	1384.1
35°	1342.5	1333.4	1318.1	1306.3	1288.2
37.5°	1263.8	1252.9	1233.9	1204.1	1179.7
40°	1175.1	1161.6	1145.3	1086.5	1042.1
42.5°	1080.1	1077.4	1049.4	949.0	887.5
45°	979.7	983.3	942.6	807.8	751.8
47.5°	878.4	891.1	816.9	684.8	655.9
50°	789.8	794.3	695.7	594.4	578.1
52.5°	698.4	691.1	593.4	522.9	511.1
55°	615.2	586.2	509.3	455.9	455.0
57.5°	541.9	488.5	435.1	395.3	399.9
60°	465.0	405.3	365.5	343.8	350.1
62.5°	397.1	340.1	304.9	298.5	309.4
65°	344.7	285.9	247.9	264.2	273.2
67.5°	294.9	245.2	201.7	240.6	244.3
70°	248.8	212.6	170.1	221.6	222.5
72.5°	210.8	188.2	147.5	200.8	203.5
75°	183.6	163.7	135.7	179.1	188.2
77.5°	161.0	140.2	125.7	154.7	170.1
80°	136.6	113.1	114.9	129.4	144.7
82.5°	104.9	87.8	91.4	106.7	117.6
85°	71.5	67.8	61.5	79.6	85.0
87.5°	38.0	36.2	31.7	45.2	42.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)