

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: P291044

Luminaire Tested: **14GR-LD5-43-A-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291044
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-L82765-W2A1-U-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4586.0 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

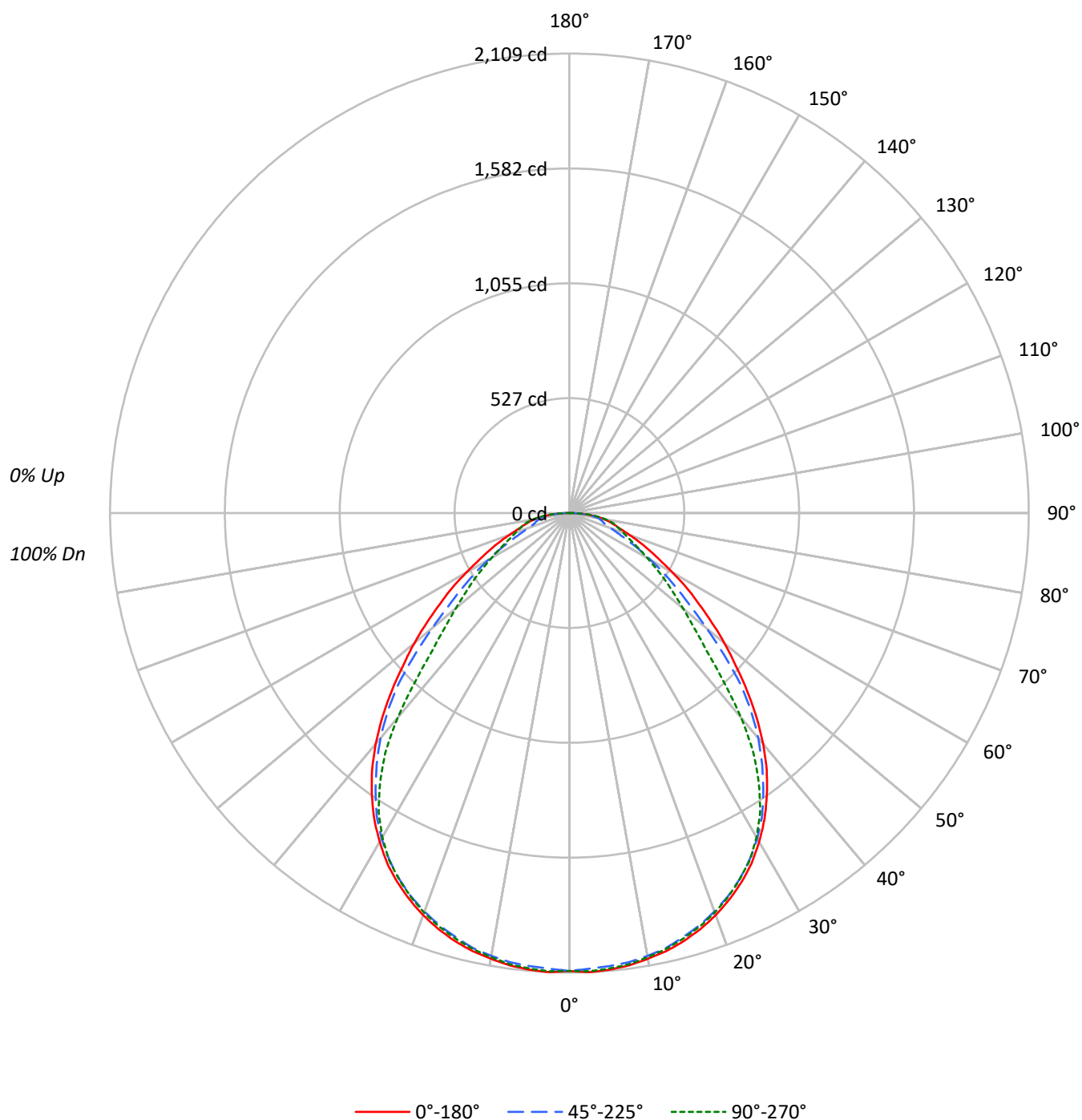
Input Watts (W): 37.572
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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	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°	5655	5655	5655
5°	5682	5639	5668
10°	5675	5640	5655
15°	5665	5614	5632
20°	5625	5573	5588
25°	5550	5497	5500
30°	5415	5358	5335
35°	5193	5098	4983
40°	4860	4737	4310
45°	4390	4224	3368
50°	3893	3429	2849
55°	3398	2814	2514
60°	2947	2316	2218
65°	2584	1858	2048
70°	2305	1575	2061
75°	2248	1661	2303
80°	2492	2097	2641
85°	2597	2235	3091



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.4	4.3
10°-20°	571.2	12.5
20°-30°	854.4	18.6
30°-40°	964.5	21.0
40°-50°	818.3	17.8
50°-60°	553.7	12.1
60°-70°	330.5	7.2
70°-80°	207.0	4.5
80°-90°	87.1	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°	1625.0	35.4
0°-40°	2589.6	56.5
0°-60°	3961.5	86.4
0°-90°	4586.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4586.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2102	2102	2102	2102	2102	
5°	2104	2097	2088	2103	2098	200
15°	2033	2029	2015	2029	2022	573
25°	1869	1863	1851	1860	1852	860
35°	1581	1570	1552	1538	1517	985
45°	1154	1158	1110	951	885	889
55°	724	690	600	537	536	652
65°	406	337	292	311	322	406
75°	216	193	160	211	222	232
85°	84	80	72	94	100	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2101.5	2101.5	2101.5	2101.5	2101.5
2.5°	2109.0	2102.6	2093.0	2105.8	2104.7
5°	2103.6	2097.2	2087.7	2102.6	2098.3
7.5°	2094.1	2088.7	2079.1	2093.0	2088.7
10°	2077.0	2072.7	2064.2	2075.9	2069.6
12.5°	2058.9	2055.7	2045.1	2055.7	2049.3
15°	2033.3	2029.1	2015.2	2029.1	2021.6
17.5°	2001.4	1996.1	1984.3	1996.1	1989.7
20°	1964.1	1957.7	1946.0	1957.7	1951.3
22.5°	1919.4	1914.0	1903.4	1914.0	1905.5
25°	1869.3	1862.9	1851.2	1859.7	1852.3
27.5°	1811.8	1803.3	1792.6	1799.0	1794.7
30°	1742.6	1731.9	1724.5	1724.5	1717.0
32.5°	1666.9	1659.5	1646.7	1639.2	1629.7
35°	1580.7	1570.0	1551.9	1538.1	1516.8
37.5°	1488.0	1475.2	1452.8	1417.7	1388.9
40°	1383.6	1367.6	1348.5	1279.2	1227.0
42.5°	1271.8	1268.6	1235.6	1117.3	1044.9
45°	1153.5	1157.8	1109.9	951.2	885.1
47.5°	1034.2	1049.2	961.8	806.3	772.2
50°	929.9	935.2	819.1	699.8	680.6
52.5°	822.3	813.8	698.7	615.6	601.8
55°	724.3	690.2	599.7	536.8	535.8
57.5°	638.0	575.2	512.3	465.5	470.8
60°	547.5	477.2	430.3	404.8	412.2
62.5°	467.6	400.5	358.9	351.5	364.3
65°	405.8	336.6	291.8	311.0	321.7
67.5°	347.2	288.7	237.5	283.3	287.6
70°	292.9	250.3	200.2	261.0	262.0
72.5°	248.2	221.5	173.6	236.5	239.7
75°	216.2	192.8	159.8	210.9	221.5
77.5°	189.6	165.1	148.1	182.1	200.2
80°	160.8	133.1	135.3	152.3	170.4
82.5°	123.6	103.3	107.6	125.7	138.5
85°	84.1	79.9	72.4	93.7	100.1
87.5°	44.7	42.6	37.3	53.3	50.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)