

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: P291045

Luminaire Tested: **14GR-LD5-43-A-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291045
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-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4598.0 lumens
Efficiency: N/A
Efficacy: 122.4 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

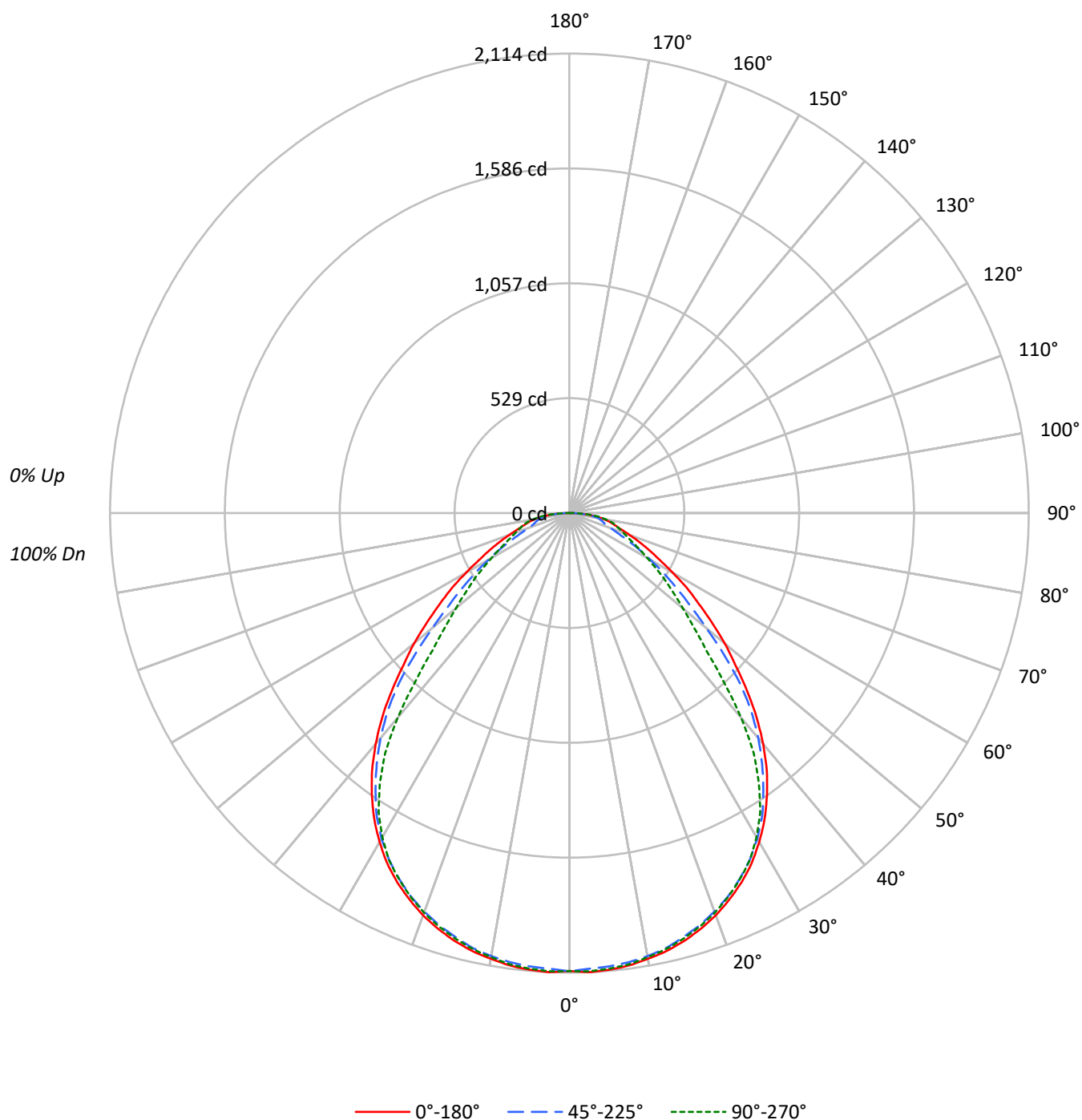
Input Watts (W): 37.572
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5670	5670	5670
5°	5697	5654	5683
10°	5690	5655	5670
15°	5680	5629	5647
20°	5639	5587	5603
25°	5565	5511	5514
30°	5429	5372	5349
35°	5206	5112	4996
40°	4873	4749	4321
45°	4402	4235	3377
50°	3903	3438	2857
55°	3407	2821	2520
60°	2954	2322	2224
65°	2591	1863	2053
70°	2311	1580	2067
75°	2254	1666	2309
80°	2500	2101	2648
85°	2606	2242	3100



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.9	4.3
10°-20°	572.7	12.5
20°-30°	856.7	18.6
30°-40°	967.1	21.0
40°-50°	820.4	17.8
50°-60°	555.1	12.1
60°-70°	331.3	7.2
70°-80°	207.5	4.5
80°-90°	87.3	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°	1629.3	35.4
0°-40°	2596.4	56.5
0°-60°	3971.9	86.4
0°-90°	4598.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4598.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2107	2107	2107	2107	2107	
5°	2109	2103	2093	2108	2104	200
15°	2039	2034	2020	2034	2027	575
25°	1874	1868	1856	1865	1857	862
35°	1585	1574	1556	1542	1521	987
45°	1157	1161	1113	954	887	891
55°	726	692	601	538	537	654
65°	407	338	293	312	322	407
75°	217	193	160	211	222	233
85°	84	80	73	94	100	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2107.0	2107.0	2107.0	2107.0	2107.0
2.5°	2114.5	2108.1	2098.5	2111.3	2110.2
5°	2109.1	2102.7	2093.1	2108.1	2103.8
7.5°	2099.5	2094.2	2084.6	2098.5	2094.2
10°	2082.4	2078.2	2069.6	2081.4	2075.0
12.5°	2064.3	2061.1	2050.4	2061.1	2054.7
15°	2038.7	2034.4	2020.5	2034.4	2026.9
17.5°	2006.6	2001.3	1989.5	2001.3	1994.9
20°	1969.2	1962.8	1951.1	1962.8	1956.4
22.5°	1924.4	1919.1	1908.4	1919.1	1910.5
25°	1874.2	1867.8	1856.0	1864.6	1857.1
27.5°	1816.5	1808.0	1797.3	1803.7	1799.4
30°	1747.1	1736.4	1729.0	1729.0	1721.5
32.5°	1671.3	1663.8	1651.0	1643.5	1633.9
35°	1584.8	1574.1	1556.0	1542.1	1520.7
37.5°	1491.9	1479.1	1456.6	1421.4	1392.6
40°	1387.2	1371.2	1352.0	1282.6	1230.2
42.5°	1275.1	1271.9	1238.8	1120.2	1047.6
45°	1156.6	1160.8	1112.8	953.7	887.4
47.5°	1037.0	1051.9	964.3	808.4	774.2
50°	932.3	937.6	821.2	701.6	682.4
52.5°	824.4	815.9	700.6	617.3	603.4
55°	726.2	692.0	601.2	538.2	537.2
57.5°	639.7	576.7	513.7	466.7	472.0
60°	548.9	478.4	431.4	405.8	413.3
62.5°	468.8	401.5	359.9	352.4	365.2
65°	406.9	337.5	292.6	311.8	322.5
67.5°	348.1	289.4	238.1	284.1	288.3
70°	293.7	251.0	200.8	261.6	262.7
72.5°	248.8	222.1	174.1	237.1	240.3
75°	216.8	193.3	160.2	211.4	222.1
77.5°	190.1	165.5	148.4	182.6	200.8
80°	161.3	133.5	135.6	152.7	170.9
82.5°	123.9	103.6	107.9	126.0	138.8
85°	84.4	80.1	72.6	94.0	100.4
87.5°	44.9	42.7	37.4	53.4	50.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)