

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: P291527

Luminaire Tested: **14GR-LD5-40-A19/156-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33288)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-40-A19/156-UNV-L92765-W2A1-U-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3774.0 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

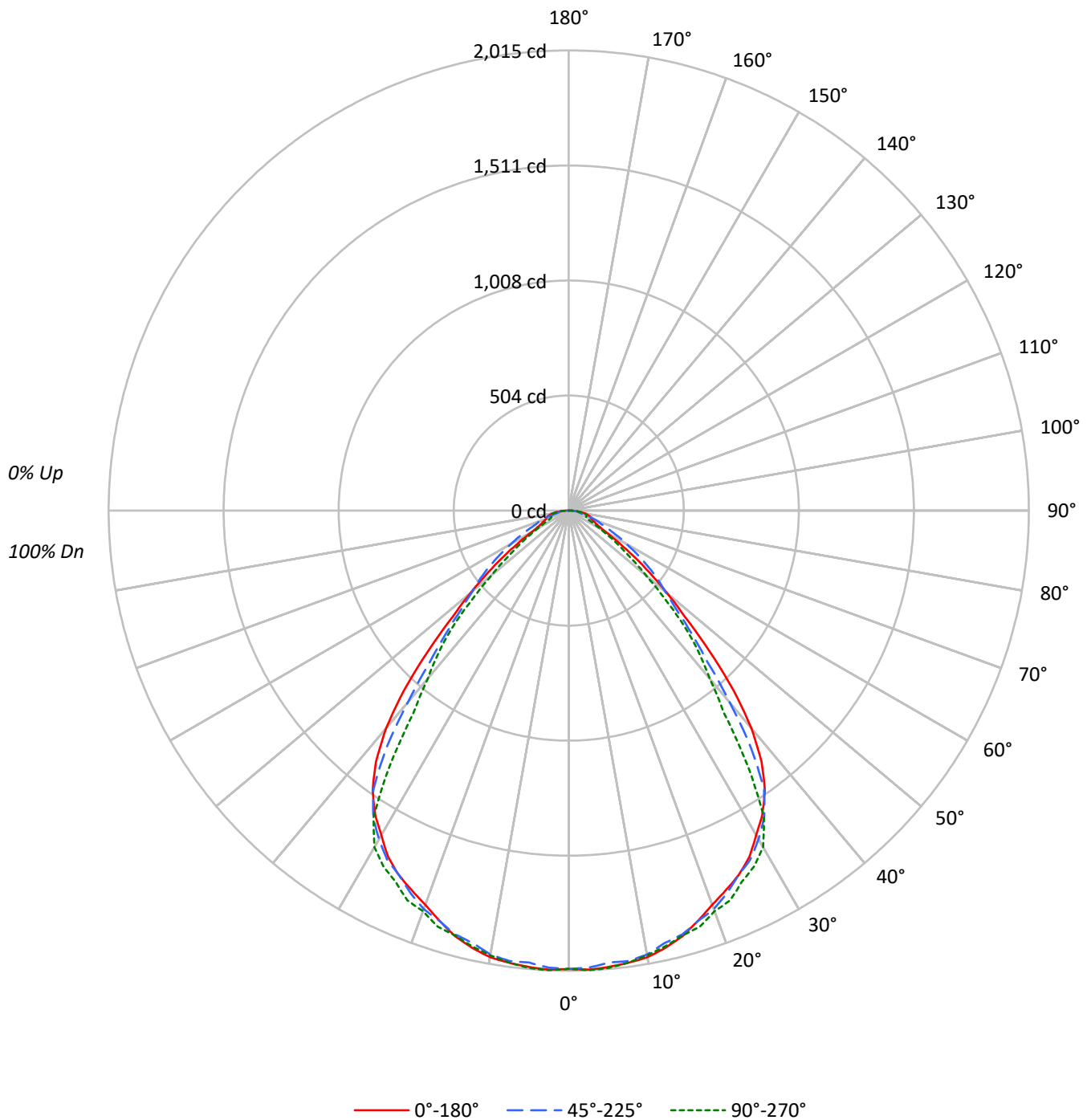
Input Watts (W): 35.247
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88		
2	103	96	90	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77		
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68		
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61		
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54		
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51	60	55	51	49		
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44		
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40		
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37		
10	60	48	40	36	58	47	40	36	46	40	35	45	39	35	44	39	35	34		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5401	5401	5401
5°	5419	5367	5430
10°	5427	5394	5404
15°	5372	5353	5365
20°	5260	5316	5346
25°	5228	5225	5325
30°	5100	5162	5288
35°	4918	4898	4501
40°	4367	3854	3375
45°	3314	2884	2729
50°	2351	2308	1852
55°	1609	1970	1273
60°	995	1572	851
65°	819	1210	616
70°	816	1054	632
75°	979	755	844
80°	1125	696	1057
85°	1068	1226	1201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.4	5.0
10°-20°	543.5	14.4
20°-30°	817.3	21.7
30°-40°	891.0	23.6
40°-50°	623.9	16.5
50°-60°	353.2	9.4
60°-70°	193.2	5.1
70°-80°	117.1	3.1
80°-90°	44.4	1.2
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°	1551.2	41.1
0°-40°	2442.2	64.7
0°-60°	3419.3	90.6
0°-90°	3774.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3774.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2007	2007	2007	2007	2007	
5°	2006	2002	1987	2010	2010	191
15°	1928	1923	1921	1949	1926	542
25°	1761	1764	1760	1800	1794	809
35°	1497	1490	1491	1415	1370	923
45°	871	909	758	748	717	676
55°	343	410	420	416	271	314
65°	129	212	190	240	97	132
75°	94	136	73	142	81	98
85°	35	56	40	48	39	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2006.9	2006.9	2006.9	2006.9	2006.9
2.5°	2012.0	2009.5	2003.4	2015.5	2014.6
5°	2006.0	2002.5	1987.0	2010.3	2010.3
7.5°	1997.4	1988.7	1989.6	2002.5	1996.5
10°	1986.1	1971.4	1974.0	1977.5	1977.5
12.5°	1960.2	1946.4	1939.5	1950.7	1954.2
15°	1928.3	1923.1	1921.3	1949.0	1925.7
17.5°	1883.3	1894.6	1884.2	1906.7	1910.1
20°	1836.7	1858.3	1856.5	1872.1	1866.9
22.5°	1798.7	1812.5	1812.5	1831.5	1847.0
25°	1760.7	1764.1	1759.8	1800.4	1793.5
27.5°	1711.4	1708.8	1722.6	1743.4	1757.2
30°	1641.4	1642.3	1661.3	1688.9	1701.9
32.5°	1577.5	1569.7	1593.1	1605.1	1591.3
35°	1497.2	1490.2	1491.1	1415.1	1370.2
37.5°	1387.4	1393.5	1314.0	1174.9	1116.2
40°	1243.2	1255.3	1097.2	993.5	960.7
42.5°	1068.7	1072.1	899.3	865.6	844.0
45°	870.8	908.8	757.7	748.1	717.0
47.5°	690.3	761.1	635.0	641.0	566.7
50°	561.5	632.4	551.2	553.8	442.3
52.5°	444.1	513.2	486.4	478.6	347.3
55°	343.0	410.4	419.9	416.4	271.3
57.5°	252.3	324.8	352.5	365.4	209.1
60°	184.9	265.2	292.0	317.9	158.1
62.5°	146.9	229.8	239.3	277.3	122.7
65°	128.7	211.7	190.1	240.2	96.8
67.5°	114.9	201.3	154.6	212.5	84.7
70°	103.7	181.4	133.9	190.1	80.3
72.5°	103.7	159.0	105.4	168.5	81.2
75°	94.2	135.6	72.6	142.5	81.2
77.5°	83.8	115.8	54.4	115.8	76.0
80°	72.6	90.7	44.9	89.0	68.2
82.5°	53.6	68.2	38.9	66.5	55.3
85°	34.6	56.2	39.7	48.4	38.9
87.5°	16.4	28.5	25.1	24.2	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)