

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: P291418

Luminaire Tested: **14GR-LD5-36-A19/156-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291418
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-LD5-36-A19/156-UNV-L82765-W2A1-U-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3695.0 lumens
Efficiency: N/A
Efficacy: 122.6 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

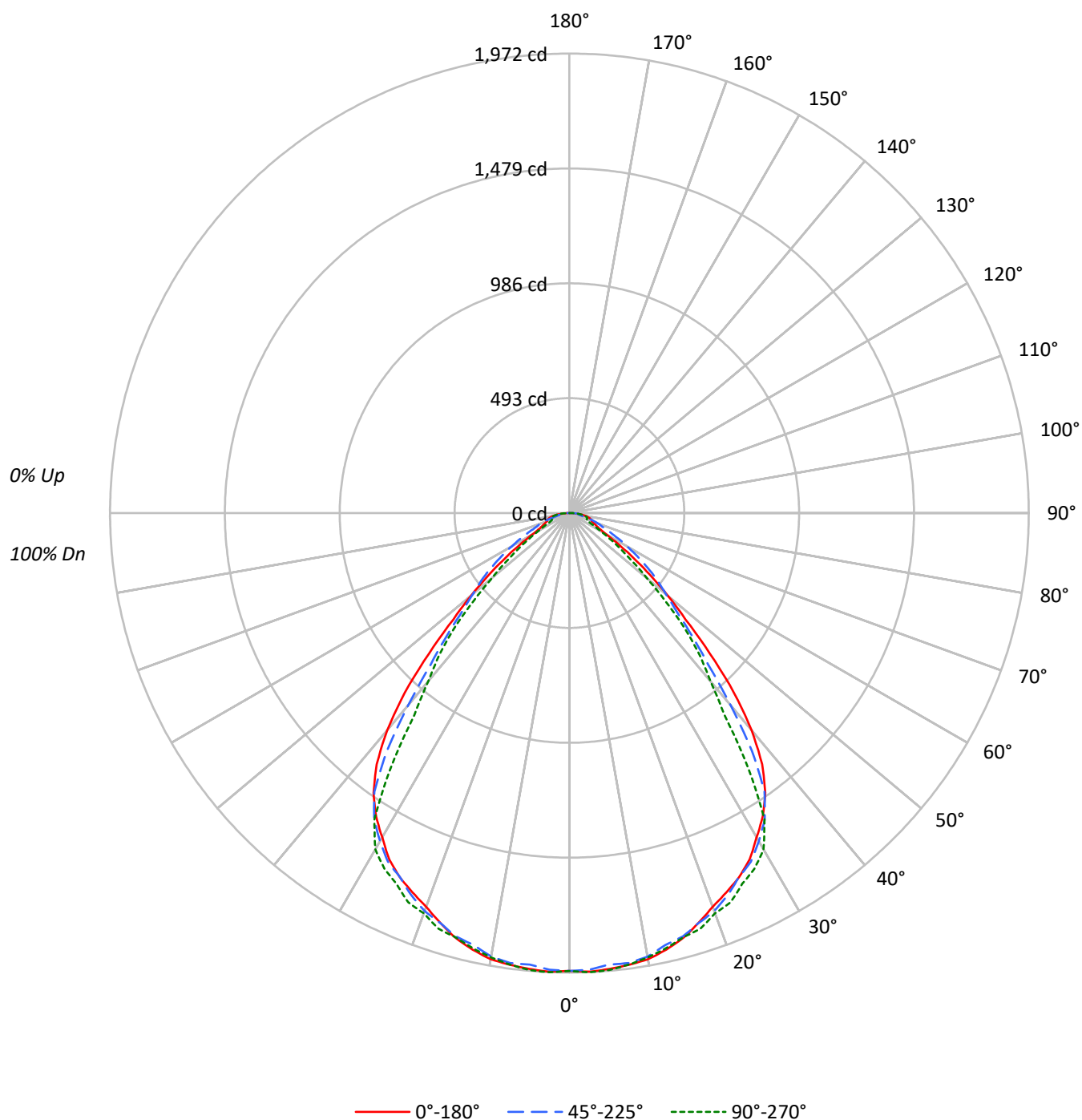
Input Watts (W): 30.132
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5288	5288	5288
5°	5305	5255	5317
10°	5314	5281	5290
15°	5260	5241	5252
20°	5149	5205	5234
25°	5118	5116	5214
30°	4994	5054	5178
35°	4815	4796	4407
40°	4275	3773	3304
45°	3245	2823	2672
50°	2302	2259	1813
55°	1575	1929	1246
60°	974	1539	833
65°	802	1185	603
70°	799	1031	619
75°	959	738	827
80°	1100	682	1035
85°	1044	1201	1176



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.4	5.0
10°-20°	532.1	14.4
20°-30°	800.2	21.7
30°-40°	872.3	23.6
40°-50°	610.8	16.5
50°-60°	345.8	9.4
60°-70°	189.2	5.1
70°-80°	114.6	3.1
80°-90°	43.5	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°	1518.7	41.1
0°-40°	2391.1	64.7
0°-60°	3347.7	90.6
0°-90°	3695.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3695.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1965	1965	1965	1965	1965	
5°	1964	1961	1945	1968	1968	187
15°	1888	1883	1881	1908	1885	531
25°	1724	1727	1723	1763	1756	792
35°	1466	1459	1460	1386	1342	903
45°	853	890	742	732	702	662
55°	336	402	411	408	266	307
65°	126	207	186	235	95	129
75°	92	133	71	140	80	96
85°	34	55	39	47	38	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1964.9	1964.9	1964.9	1964.9	1964.9
2.5°	1969.9	1967.4	1961.5	1973.3	1972.5
5°	1964.0	1960.6	1945.4	1968.2	1968.2
7.5°	1955.6	1947.1	1947.9	1960.6	1954.7
10°	1944.6	1930.2	1932.7	1936.1	1936.1
12.5°	1919.2	1905.6	1898.9	1909.9	1913.3
15°	1887.9	1882.8	1881.1	1908.2	1885.3
17.5°	1843.9	1854.9	1844.7	1866.7	1870.1
20°	1798.2	1819.4	1817.7	1832.9	1827.8
22.5°	1761.0	1774.5	1774.5	1793.2	1808.4
25°	1723.8	1727.2	1723.0	1762.7	1755.9
27.5°	1675.6	1673.0	1686.6	1706.9	1720.4
30°	1607.1	1607.9	1626.5	1653.6	1666.3
32.5°	1544.5	1536.9	1559.7	1571.5	1558.0
35°	1465.8	1459.1	1459.9	1385.5	1341.5
37.5°	1358.4	1364.3	1286.5	1150.3	1092.8
40°	1217.1	1229.0	1074.2	972.7	940.6
42.5°	1046.3	1049.7	880.5	847.5	826.4
45°	852.6	889.8	741.8	732.5	702.0
47.5°	675.8	745.2	621.7	627.6	554.9
50°	549.8	619.1	539.6	542.2	433.1
52.5°	434.8	502.4	476.2	468.6	340.0
55°	335.8	401.8	411.1	407.7	265.6
57.5°	247.0	318.0	345.1	357.8	204.7
60°	181.0	259.7	285.9	311.3	154.8
62.5°	143.8	225.0	234.3	271.5	120.1
65°	126.0	207.2	186.1	235.1	94.7
67.5°	112.5	197.1	151.4	208.1	82.9
70°	101.5	177.6	131.1	186.1	78.7
72.5°	101.5	155.6	103.2	164.9	79.5
75°	92.2	132.8	71.0	139.6	79.5
77.5°	82.0	113.3	53.3	113.3	74.4
80°	71.0	88.8	44.0	87.1	66.8
82.5°	52.4	66.8	38.1	65.1	54.1
85°	33.8	55.0	38.9	47.4	38.1
87.5°	16.1	27.9	24.5	23.7	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)