

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: P291144

Luminaire Tested: **14GR-LD5-43-A-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291144
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-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4186.0 lumens
Efficiency: N/A
Efficacy: 109.5 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

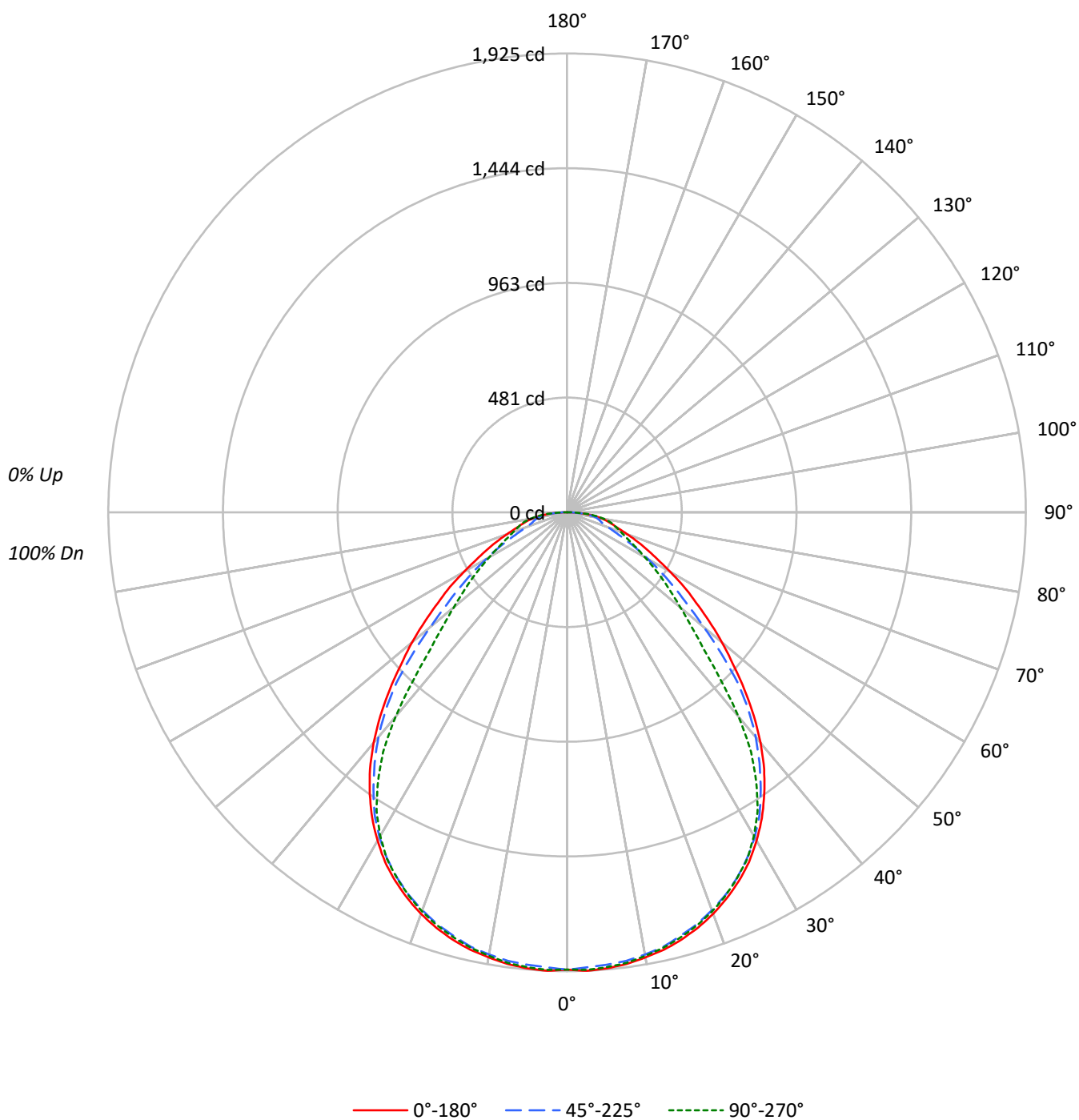
Input Watts (W): 38.223
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	106	102	98	107	103	100	97		99	96	94		95	93	91		92	90	88
2	101	94	88	83	99	92	86	82		88	84	80		85	81	78		82	79	76
3	93	84	76	71	91	82	75	70		79	74	69		77	72	68		74	70	66
4	86	75	67	61	84	74	67	61		72	65	60		69	64	59		67	62	58
5	80	68	60	54	78	67	59	53		65	58	53		63	57	52		61	56	52
6	74	62	54	48	72	61	53	47		59	52	47		58	51	47		56	51	46
7	69	57	48	43	67	56	48	43		54	47	42		53	47	42		52	46	42
8	65	52	44	38	63	51	44	38		50	43	38		49	43	38		48	42	38
9	61	48	40	35	59	47	40	35		46	39	35		45	39	35		44	39	34
10	57	44	37	32	56	44	37	32		43	36	32		42	36	32		41	36	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5162	5162	5162
5°	5187	5148	5174
10°	5180	5149	5162
15°	5171	5125	5141
20°	5134	5087	5101
25°	5066	5017	5020
30°	4942	4891	4870
35°	4740	4653	4548
40°	4436	4324	3934
45°	4007	3855	3075
50°	3553	3130	2601
55°	3102	2568	2294
60°	2689	2114	2025
65°	2358	1696	1869
70°	2104	1438	1882
75°	2052	1516	2102
80°	2275	1914	2411
85°	2371	2041	2822



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.0	4.3
10°-20°	521.4	12.5
20°-30°	779.9	18.6
30°-40°	880.4	21.0
40°-50°	746.9	17.8
50°-60°	505.4	12.1
60°-70°	301.7	7.2
70°-80°	188.9	4.5
80°-90°	79.5	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°	1483.3	35.4
0°-40°	2363.7	56.5
0°-60°	3616.0	86.4
0°-90°	4186.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4186.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1918	1918	1918	1918	1918	
5°	1920	1914	1906	1919	1915	183
15°	1856	1852	1840	1852	1845	523
25°	1706	1700	1690	1698	1691	785
35°	1443	1433	1416	1404	1384	899
45°	1053	1057	1013	868	808	811
55°	661	630	547	490	489	596
65°	370	307	266	284	294	370
75°	197	176	146	192	202	212
85°	77	73	66	86	91	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1918.2	1918.2	1918.2	1918.2	1918.2
2.5°	1925.0	1919.2	1910.4	1922.1	1921.1
5°	1920.2	1914.3	1905.6	1919.2	1915.3
7.5°	1911.4	1906.5	1897.8	1910.4	1906.5
10°	1895.8	1892.0	1884.2	1894.9	1889.0
12.5°	1879.3	1876.4	1866.7	1876.4	1870.6
15°	1856.0	1852.1	1839.5	1852.1	1845.3
17.5°	1826.8	1822.0	1811.3	1822.0	1816.1
20°	1792.8	1787.0	1776.3	1787.0	1781.1
22.5°	1752.0	1747.1	1737.4	1747.1	1739.3
25°	1706.3	1700.4	1689.7	1697.5	1690.7
27.5°	1653.8	1646.0	1636.3	1642.1	1638.2
30°	1590.6	1580.8	1574.0	1574.0	1567.2
32.5°	1521.5	1514.7	1503.1	1496.3	1487.5
35°	1442.8	1433.1	1416.5	1403.9	1384.5
37.5°	1358.2	1346.5	1326.1	1294.0	1267.8
40°	1262.9	1248.3	1230.8	1167.6	1120.0
42.5°	1160.8	1157.9	1127.8	1019.9	953.8
45°	1052.9	1056.8	1013.1	868.2	807.9
47.5°	944.0	957.6	877.9	736.0	704.9
50°	848.8	853.6	747.6	638.8	621.3
52.5°	750.6	742.8	637.8	561.9	549.3
55°	661.1	630.0	547.4	490.0	489.0
57.5°	582.4	525.0	467.6	424.9	429.7
60°	499.7	435.6	392.8	369.4	376.3
62.5°	426.8	365.6	327.6	320.8	332.5
65°	370.4	307.2	266.4	283.9	293.6
67.5°	316.9	263.5	216.8	258.6	262.5
70°	267.4	228.5	182.8	238.2	239.2
72.5°	226.5	202.2	158.5	215.8	218.8
75°	197.4	176.0	145.8	192.5	202.2
77.5°	173.1	150.7	135.1	166.3	182.8
80°	146.8	121.5	123.5	139.0	155.6
82.5°	112.8	94.3	98.2	114.7	126.4
85°	76.8	72.9	66.1	85.6	91.4
87.5°	40.8	38.9	34.0	48.6	45.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)