

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: P291143

Luminaire Tested: **14GR-LD5-43-A-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291143
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-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4158.0 lumens
Efficiency: N/A
Efficacy: 110.4 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

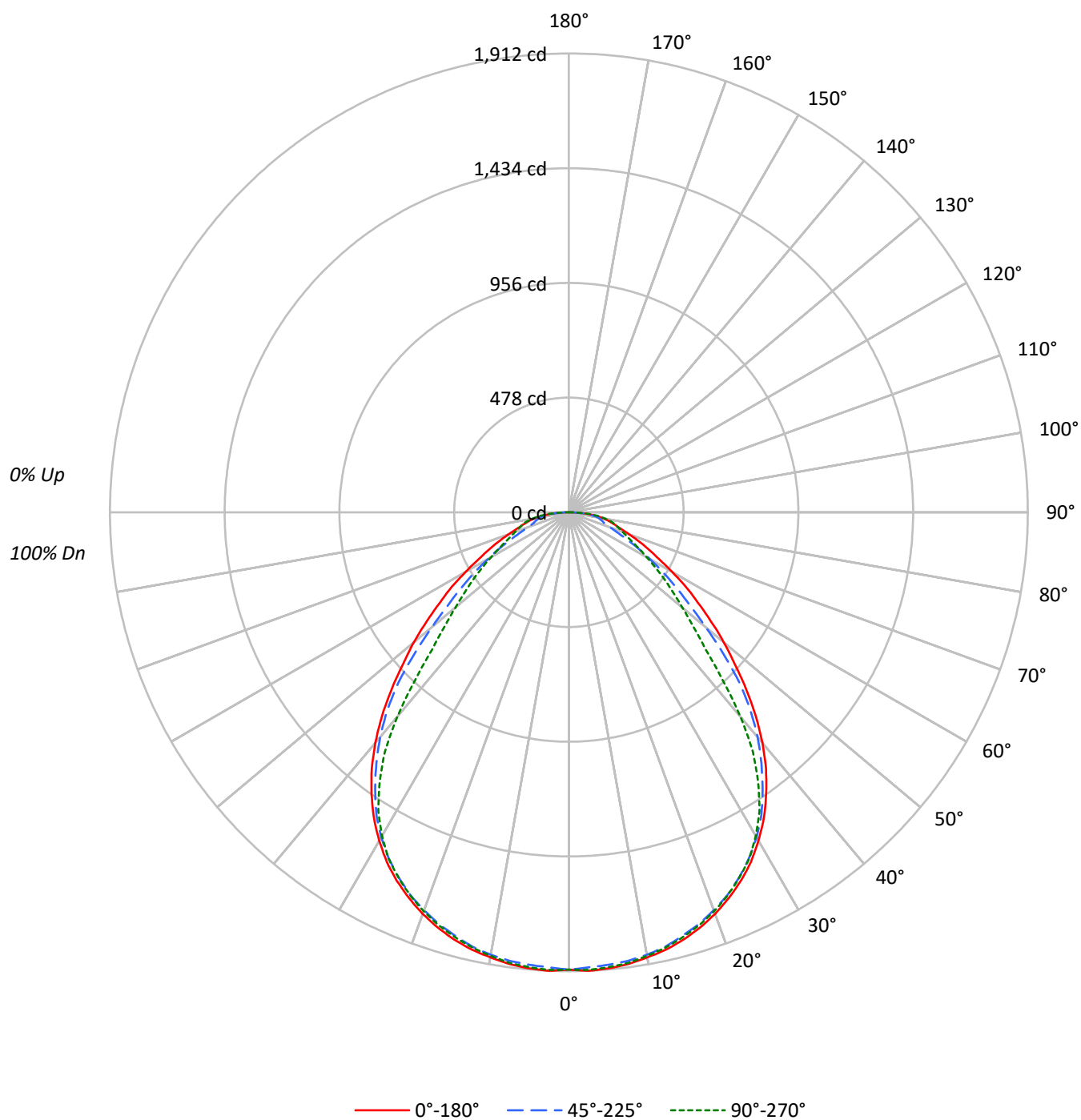
Input Watts (W): 37.665
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5127	5127	5127
5°	5152	5113	5139
10°	5146	5114	5127
15°	5136	5090	5107
20°	5100	5053	5066
25°	5032	4983	4986
30°	4909	4858	4837
35°	4708	4622	4518
40°	4407	4295	3908
45°	3980	3830	3054
50°	3530	3109	2583
55°	3081	2551	2279
60°	2672	2100	2011
65°	2343	1685	1857
70°	2090	1429	1869
75°	2038	1507	2089
80°	2259	1900	2394
85°	2356	2029	2803



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.8	4.3
10°-20°	517.9	12.5
20°-30°	774.7	18.6
30°-40°	874.5	21.0
40°-50°	741.9	17.8
50°-60°	502.0	12.1
60°-70°	299.6	7.2
70°-80°	187.6	4.5
80°-90°	78.9	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°	1473.4	35.4
0°-40°	2347.9	56.5
0°-60°	3591.8	86.4
0°-90°	4158.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4158.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1905	1905	1905	1905	1905	
5°	1907	1902	1893	1906	1902	181
15°	1844	1840	1827	1840	1833	520
25°	1695	1689	1678	1686	1679	779
35°	1433	1424	1407	1394	1375	893
45°	1046	1050	1006	862	802	806
55°	657	626	544	487	486	592
65°	368	305	265	282	292	368
75°	196	175	145	191	201	211
85°	76	72	66	85	91	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1905.4	1905.4	1905.4	1905.4	1905.4
2.5°	1912.1	1906.3	1897.7	1909.2	1908.3
5°	1907.3	1901.5	1892.8	1906.3	1902.5
7.5°	1898.6	1893.8	1885.1	1897.7	1893.8
10°	1883.2	1879.3	1871.6	1882.2	1876.4
12.5°	1866.8	1863.9	1854.2	1863.9	1858.1
15°	1843.6	1839.7	1827.2	1839.7	1833.0
17.5°	1814.6	1809.8	1799.1	1809.8	1804.0
20°	1780.8	1775.0	1764.4	1775.0	1769.2
22.5°	1740.2	1735.4	1725.8	1735.4	1727.7
25°	1694.9	1689.1	1678.4	1686.2	1679.4
27.5°	1642.7	1635.0	1625.3	1631.1	1627.3
30°	1579.9	1570.3	1563.5	1563.5	1556.8
32.5°	1511.4	1504.6	1493.0	1486.3	1477.6
35°	1433.1	1423.5	1407.1	1394.5	1375.2
37.5°	1349.1	1337.5	1317.3	1285.4	1259.3
40°	1254.5	1240.0	1222.6	1159.8	1112.5
42.5°	1153.1	1150.2	1120.2	1013.0	947.4
45°	1045.9	1049.7	1006.3	862.4	802.5
47.5°	937.7	951.2	872.1	731.1	700.2
50°	843.1	847.9	742.6	634.5	617.1
52.5°	745.5	737.8	633.5	558.2	545.6
55°	656.7	625.8	543.7	486.7	485.8
57.5°	578.5	521.5	464.5	422.0	426.9
60°	496.4	432.6	390.2	367.0	373.7
62.5°	424.0	363.1	325.5	318.7	330.3
65°	367.9	305.2	264.6	282.0	291.6
67.5°	314.8	261.7	215.4	256.9	260.7
70°	265.6	226.9	181.6	236.6	237.6
72.5°	225.0	200.9	157.4	214.4	217.3
75°	196.0	174.8	144.9	191.2	200.9
77.5°	171.9	149.7	134.2	165.1	181.6
80°	145.8	120.7	122.6	138.1	154.5
82.5°	112.0	93.7	97.5	114.0	125.5
85°	76.3	72.4	65.7	85.0	90.8
87.5°	40.6	38.6	33.8	48.3	45.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)