

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: P290981

Luminaire Tested: **14GR-LD5-43-A-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290981
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-L83050-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4630.0 lumens
Efficiency: N/A
Efficacy: 123.8 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

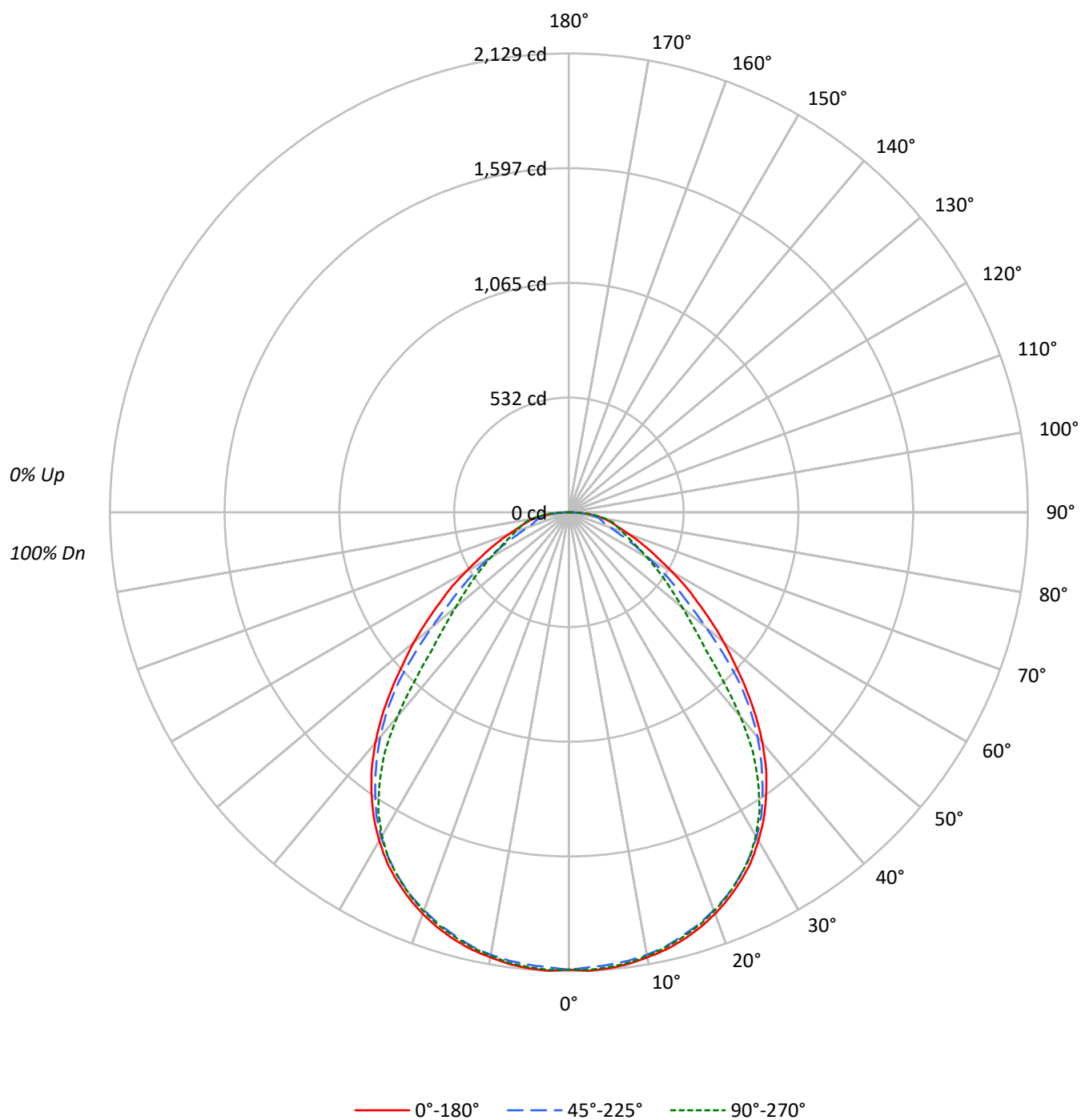
Input Watts (W): 37.386
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290981

CATALOG NUMBER: 14GR-LD5-43-A-UNV-L83050-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P290981

CATALOG NUMBER: 14GR-LD5-43-A-UNV-L83050-W2A1-U-4000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5709	5709	5709
5°	5737	5693	5722
10°	5730	5695	5709
15°	5719	5668	5686
20°	5679	5626	5641
25°	5603	5549	5552
30°	5467	5410	5386
35°	5242	5147	5030
40°	4907	4782	4352
45°	4432	4264	3401
50°	3930	3462	2877
55°	3430	2840	2538
60°	2975	2338	2240
65°	2609	1876	2068
70°	2327	1591	2081
75°	2270	1677	2326
80°	2517	2117	2667
85°	2624	2257	3122



TEST NUMBER: P290981

CATALOG NUMBER: 14GR-LD5-43-A-UNV-L83050-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.3	4.3
10°-20°	576.7	12.5
20°-30°	862.7	18.6
30°-40°	973.8	21.0
40°-50°	826.1	17.8
50°-60°	559.0	12.1
60°-70°	333.6	7.2
70°-80°	209.0	4.5
80°-90°	87.9	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°	1640.6	35.4
0°-40°	2614.4	56.5
0°-60°	3999.5	86.4
0°-90°	4630.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4630.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2122	2122	2122	2122	2122	
5°	2124	2117	2108	2123	2118	202
15°	2053	2048	2035	2048	2041	579
25°	1887	1881	1869	1878	1870	868
35°	1596	1585	1567	1553	1531	994
45°	1165	1169	1120	960	894	897
55°	731	697	605	542	541	659
65°	410	340	295	314	325	410
75°	218	195	161	213	224	235
85°	85	81	73	95	101	91
90°	0	0	0	0	0	



TEST NUMBER: P290981

CATALOG NUMBER: 14GR-LD5-43-A-UNV-L83050-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2121.7	2121.7	2121.7	2121.7	2121.7
2.5°	2129.2	2122.7	2113.1	2126.0	2124.9
5°	2123.8	2117.4	2107.7	2122.7	2118.4
7.5°	2114.1	2108.8	2099.1	2113.1	2108.8
10°	2096.9	2092.6	2084.0	2095.9	2089.4
12.5°	2078.7	2075.4	2064.7	2075.4	2069.0
15°	2052.8	2048.5	2034.6	2048.5	2041.0
17.5°	2020.6	2015.2	2003.4	2015.2	2008.8
20°	1983.0	1976.5	1964.7	1976.5	1970.0
22.5°	1937.8	1932.4	1921.7	1932.4	1923.8
25°	1887.2	1880.8	1869.0	1877.6	1870.0
27.5°	1829.2	1820.6	1809.8	1816.3	1812.0
30°	1759.3	1748.5	1741.0	1741.0	1733.5
32.5°	1682.9	1675.4	1662.5	1655.0	1645.3
35°	1595.8	1585.1	1566.8	1552.8	1531.3
37.5°	1502.3	1489.4	1466.8	1431.3	1402.3
40°	1396.9	1380.8	1361.4	1291.5	1238.8
42.5°	1284.0	1280.7	1247.4	1128.0	1054.9
45°	1164.6	1168.9	1120.5	960.3	893.6
47.5°	1044.2	1059.2	971.0	814.0	779.6
50°	938.8	944.2	826.9	706.5	687.2
52.5°	830.2	821.6	705.4	621.6	607.6
55°	731.2	696.8	605.4	542.0	540.9
57.5°	644.1	580.7	517.2	469.9	475.3
60°	552.7	481.8	434.4	408.6	416.2
62.5°	472.1	404.3	362.4	354.9	367.8
65°	409.7	339.8	294.6	314.0	324.8
67.5°	350.6	291.4	239.8	286.0	290.3
70°	295.7	252.7	202.2	263.5	264.5
72.5°	250.6	223.7	175.3	238.7	242.0
75°	218.3	194.6	161.3	212.9	223.7
77.5°	191.4	166.7	149.5	183.9	202.2
80°	162.4	134.4	136.6	153.8	172.1
82.5°	124.7	104.3	108.6	126.9	139.8
85°	85.0	80.7	73.1	94.6	101.1
87.5°	45.2	43.0	37.6	53.8	50.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)