

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: P291041

Luminaire Tested: **14GR-LD5-43-A-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291041
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-L82765-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: 4402.0 lumens
Efficiency: N/A
Efficacy: 118.9 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

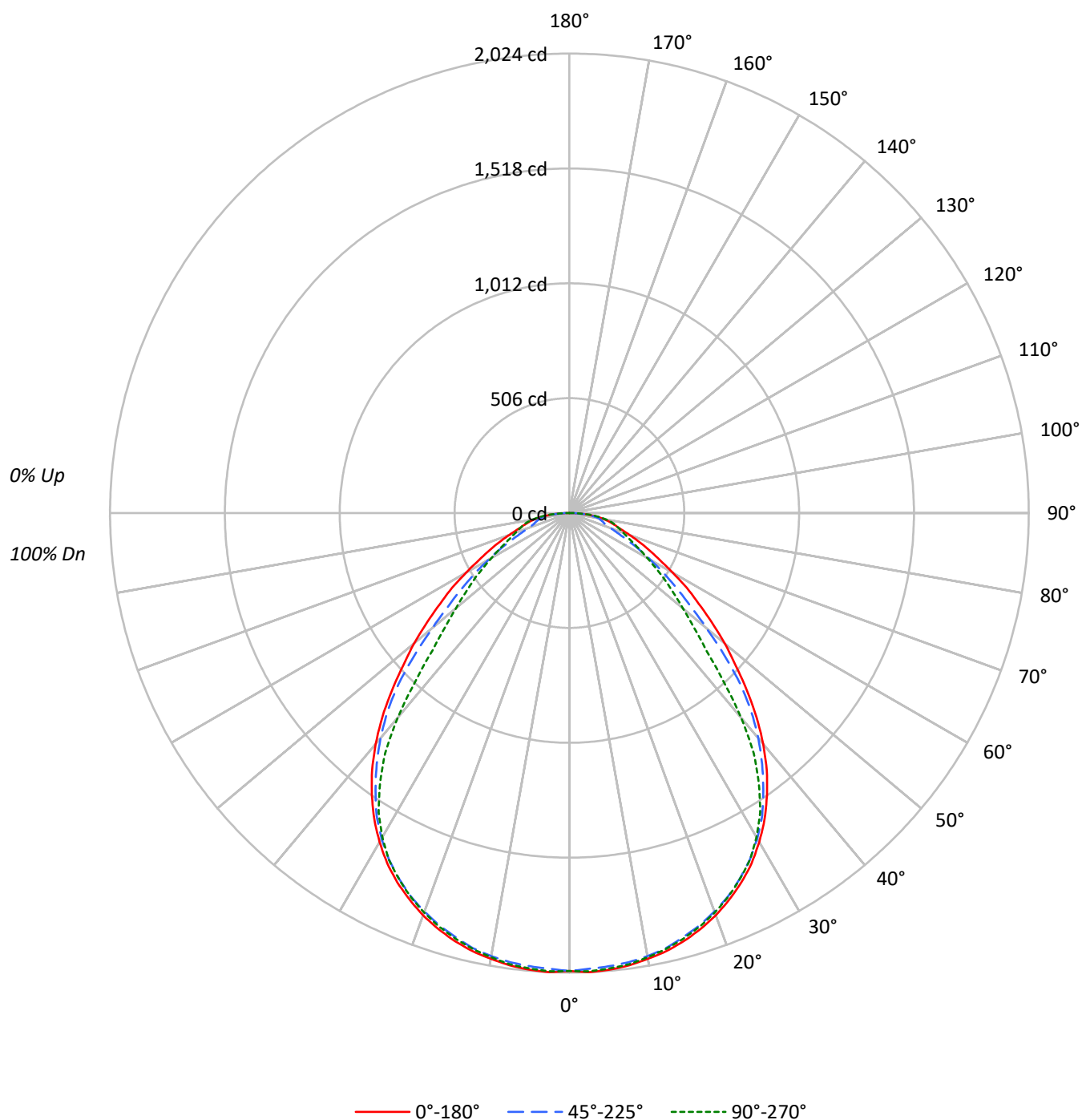
Input Watts (W): 37.014
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5428	5428	5428
5°	5454	5413	5441
10°	5448	5414	5428
15°	5438	5389	5406
20°	5399	5349	5364
25°	5328	5276	5279
30°	5197	5143	5121
35°	4984	4893	4783
40°	4665	4547	4137
45°	4214	4054	3233
50°	3737	3291	2735
55°	3262	2700	2413
60°	2828	2223	2130
65°	2480	1784	1966
70°	2212	1512	1979
75°	2157	1595	2211
80°	2393	2011	2535
85°	2495	2146	2967



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.4	4.3
10°-20°	548.3	12.5
20°-30°	820.2	18.6
30°-40°	925.8	21.0
40°-50°	785.4	17.8
50°-60°	531.4	12.1
60°-70°	317.2	7.2
70°-80°	198.7	4.5
80°-90°	83.6	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°	1559.8	35.4
0°-40°	2485.7	56.5
0°-60°	3802.6	86.4
0°-90°	4402.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4402.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2017	2017	2017	2017	2017	
5°	2019	2013	2004	2018	2014	192
15°	1952	1948	1934	1948	1940	550
25°	1794	1788	1777	1785	1778	825
35°	1517	1507	1490	1476	1456	945
45°	1107	1111	1065	913	850	853
55°	695	662	576	515	514	626
65°	390	323	280	298	309	389
75°	208	185	153	202	213	223
85°	81	77	70	90	96	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2017.2	2017.2	2017.2	2017.2	2017.2
2.5°	2024.3	2018.2	2009.0	2021.3	2020.3
5°	2019.2	2013.1	2003.9	2018.2	2014.1
7.5°	2010.0	2004.9	1995.7	2009.0	2004.9
10°	1993.7	1989.6	1981.4	1992.7	1986.5
12.5°	1976.3	1973.2	1963.0	1973.2	1967.1
15°	1951.8	1947.7	1934.4	1947.7	1940.5
17.5°	1921.1	1916.0	1904.7	1916.0	1909.8
20°	1885.3	1879.2	1867.9	1879.2	1873.0
22.5°	1842.4	1837.2	1827.0	1837.2	1829.1
25°	1794.3	1788.2	1776.9	1785.1	1778.0
27.5°	1739.1	1730.9	1720.7	1726.8	1722.7
30°	1672.6	1662.4	1655.3	1655.3	1648.1
32.5°	1600.1	1592.9	1580.6	1573.5	1564.3
35°	1517.2	1507.0	1489.6	1476.3	1455.9
37.5°	1428.3	1416.0	1394.6	1360.8	1333.2
40°	1328.1	1312.8	1294.4	1227.9	1177.8
42.5°	1220.7	1217.7	1186.0	1072.5	1003.0
45°	1107.3	1111.3	1065.3	913.0	849.6
47.5°	992.7	1007.1	923.2	774.0	741.2
50°	892.6	897.7	786.2	671.7	653.3
52.5°	789.3	781.1	670.7	590.9	577.7
55°	695.2	662.5	575.6	515.3	514.3
57.5°	612.4	552.1	491.8	446.8	451.9
60°	525.5	458.0	413.0	388.5	395.7
62.5°	448.8	384.4	344.5	337.4	349.7
65°	389.5	323.1	280.1	298.5	308.8
67.5°	333.3	277.1	228.0	272.0	276.0
70°	281.2	240.3	192.2	250.5	251.5
72.5°	238.2	212.7	166.7	227.0	230.0
75°	207.5	185.1	153.4	202.4	212.7
77.5°	182.0	158.5	142.1	174.8	192.2
80°	154.4	127.8	129.8	146.2	163.6
82.5°	118.6	99.2	103.3	120.6	132.9
85°	80.8	76.7	69.5	90.0	96.1
87.5°	42.9	40.9	35.8	51.1	48.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)