

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: P291529

Luminaire Tested: **14GR-LD5-43-A19/156-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291529
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-LD5-43-A19/156-UNV-L92765-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3457.0 lumens
Efficiency: N/A
Efficacy: 95.6 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

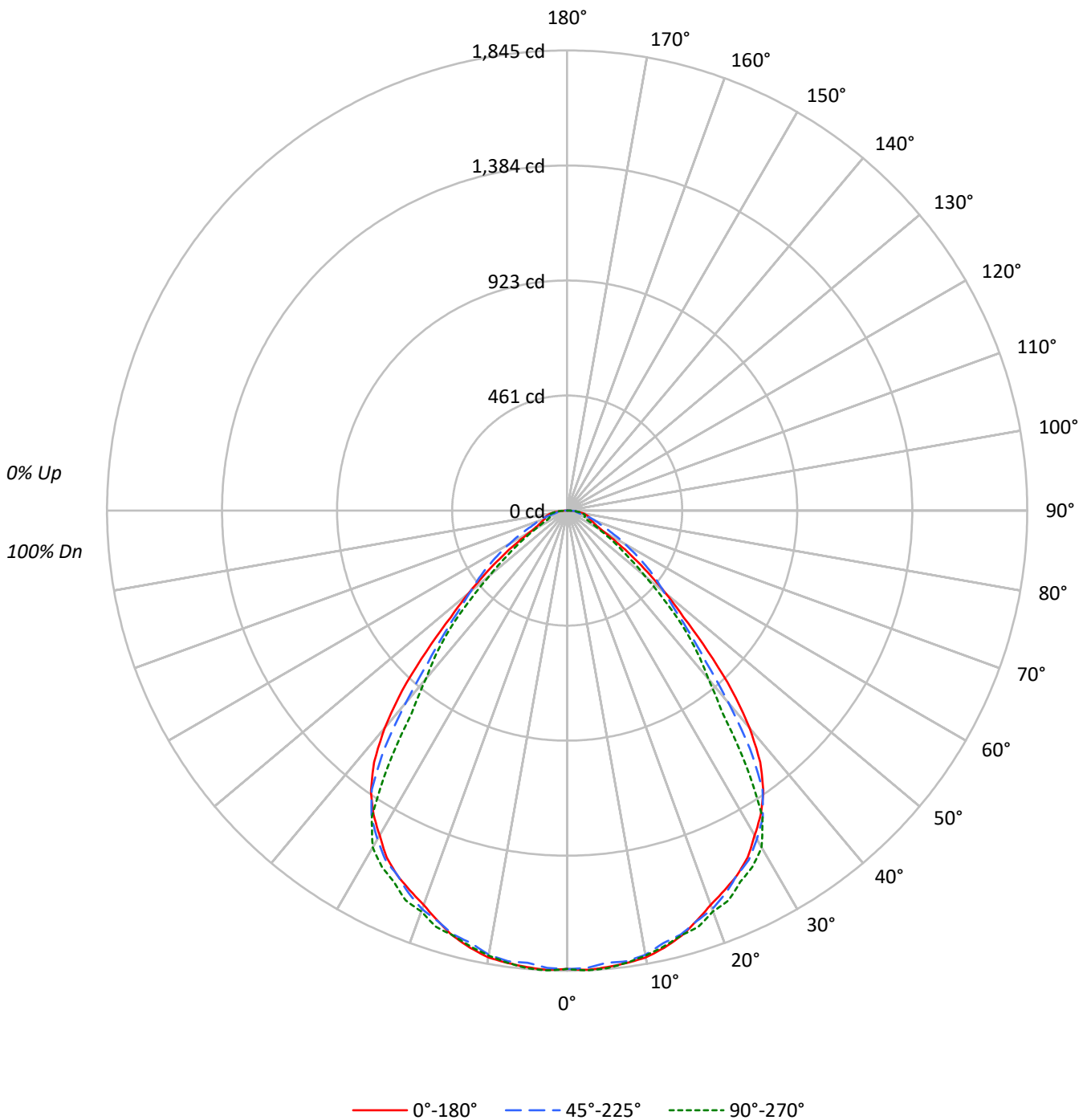
Input Watts (W): 36.177
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	111	107	104	100	108	105	102	99	101	98	96		97	95	93		93	92	90	88
2	103	96	90	86	100	94	89	85	91	87	83		88	84	81		85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	73		80	75	71		77	73	70	68
4	89	79	71	65	87	77	70	65	75	69	64		73	68	63		71	66	63	61
5	83	71	64	58	81	70	63	58	68	62	57		67	61	57		65	60	56	54
6	77	65	58	52	75	64	57	52	63	56	51		61	55	51		60	55	51	49
7	72	60	52	47	70	59	52	47	58	51	46		56	51	46		55	50	46	44
8	67	55	48	43	66	55	47	42	53	47	42		52	46	42		51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39		49	43	38		48	42	38	37
10	60	48	40	36	58	47	40	36	46	40	35		45	39	35		44	39	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4947	4947	4947
5°	4964	4917	4974
10°	4971	4941	4950
15°	4921	4903	4914
20°	4818	4870	4897
25°	4789	4786	4878
30°	4672	4729	4844
35°	4505	4487	4123
40°	4000	3530	3091
45°	3036	2641	2500
50°	2153	2114	1696
55°	1474	1804	1166
60°	911	1440	779
65°	751	1109	564
70°	747	965	579
75°	897	691	774
80°	1031	638	969
85°	979	1124	1099



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.4	5.0
10°-20°	497.8	14.4
20°-30°	748.7	21.7
30°-40°	816.2	23.6
40°-50°	571.5	16.5
50°-60°	323.5	9.4
60°-70°	177.0	5.1
70°-80°	107.3	3.1
80°-90°	40.7	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°	1420.9	41.1
0°-40°	2237.1	64.7
0°-60°	3132.0	90.6
0°-90°	3457.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3457.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1838	1838	1838	1838	1838	
5°	1838	1834	1820	1842	1842	175
15°	1766	1762	1760	1785	1764	497
25°	1613	1616	1612	1649	1643	741
35°	1371	1365	1366	1296	1255	845
45°	798	832	694	685	657	620
55°	314	376	385	381	248	287
65°	118	194	174	220	89	121
75°	86	124	66	131	74	89
85°	32	51	36	44	36	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1838.3	1838.3	1838.3	1838.3	1838.3
2.5°	1843.0	1840.7	1835.1	1846.2	1845.4
5°	1837.5	1834.3	1820.1	1841.5	1841.5
7.5°	1829.6	1821.7	1822.5	1834.3	1828.8
10°	1819.3	1805.9	1808.2	1811.4	1811.4
12.5°	1795.6	1782.9	1776.6	1786.9	1790.0
15°	1766.3	1761.5	1760.0	1785.3	1763.9
17.5°	1725.1	1735.4	1725.9	1746.5	1749.7
20°	1682.4	1702.2	1700.6	1714.8	1710.1
22.5°	1647.6	1660.2	1660.2	1677.7	1691.9
25°	1612.8	1615.9	1612.0	1649.2	1642.8
27.5°	1567.7	1565.3	1577.9	1596.9	1609.6
30°	1503.6	1504.3	1521.8	1547.1	1559.0
32.5°	1445.0	1437.9	1459.2	1470.3	1457.7
35°	1371.4	1365.1	1365.9	1296.2	1255.1
37.5°	1270.9	1276.4	1203.6	1076.2	1022.4
40°	1138.7	1149.8	1005.0	910.0	880.0
42.5°	978.9	982.1	823.8	792.9	773.1
45°	797.7	832.5	694.0	685.3	656.8
47.5°	632.3	697.2	581.6	587.2	519.1
50°	514.4	579.3	504.9	507.3	405.2
52.5°	406.8	470.1	445.5	438.4	318.1
55°	314.2	375.9	384.6	381.4	248.5
57.5°	231.1	297.5	322.9	334.7	191.5
60°	169.3	242.9	267.5	291.2	144.8
62.5°	134.5	210.5	219.2	254.0	112.4
65°	117.9	193.9	174.1	220.0	88.6
67.5°	105.2	184.4	141.7	194.7	77.6
70°	95.0	166.2	122.7	174.1	73.6
72.5°	95.0	145.6	96.5	154.3	74.4
75°	86.3	124.2	66.5	130.6	74.4
77.5°	76.8	106.0	49.9	106.0	69.6
80°	66.5	83.1	41.2	81.5	62.5
82.5°	49.1	62.5	35.6	60.9	50.6
85°	31.7	51.4	36.4	44.3	35.6
87.5°	15.0	26.1	22.9	22.2	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)