

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: P291515

Luminaire Tested: **14GR-LD5-36-A19/156-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291515
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-LD5-36-A19/156-UNV-L92765-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3285.0 lumens
Efficiency: N/A
Efficacy: 109.7 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

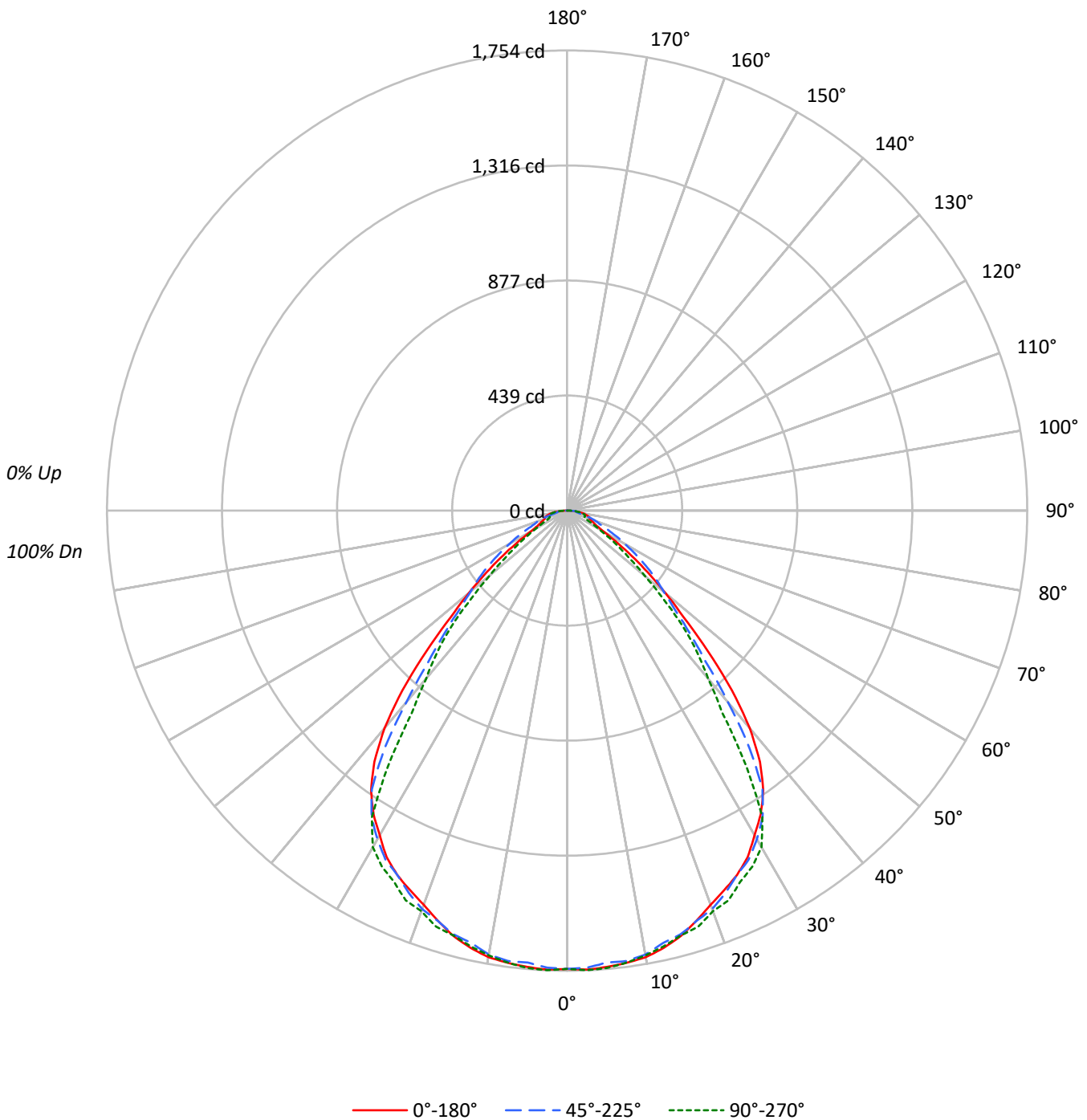
Input Watts (W): 29.946
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4701	4701	4701
5°	4717	4672	4727
10°	4724	4695	4703
15°	4676	4659	4669
20°	4578	4628	4653
25°	4550	4548	4635
30°	4440	4493	4603
35°	4281	4264	3918
40°	3801	3355	2937
45°	2885	2510	2375
50°	2046	2009	1612
55°	1400	1715	1108
60°	866	1368	741
65°	713	1053	536
70°	710	917	550
75°	853	657	735
80°	979	606	921
85°	929	1068	1044



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.7	5.0
10°-20°	473.1	14.4
20°-30°	711.4	21.7
30°-40°	775.6	23.6
40°-50°	543.1	16.5
50°-60°	307.4	9.4
60°-70°	168.2	5.1
70°-80°	102.0	3.1
80°-90°	38.7	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°	1350.2	41.1
0°-40°	2125.8	64.7
0°-60°	2976.2	90.6
0°-90°	3285.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3285.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1747	1747	1747	1747	1747	
5°	1746	1743	1730	1750	1750	166
15°	1678	1674	1672	1696	1676	472
25°	1532	1536	1532	1567	1561	704
35°	1303	1297	1298	1232	1193	803
45°	758	791	660	651	624	589
55°	298	357	366	362	236	273
65°	112	184	165	209	84	115
75°	82	118	63	124	71	85
85°	30	49	35	42	34	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1746.8	1746.8	1746.8	1746.8	1746.8
2.5°	1751.3	1749.1	1743.8	1754.4	1753.6
5°	1746.1	1743.1	1729.5	1749.8	1749.8
7.5°	1738.6	1731.0	1731.8	1743.1	1737.8
10°	1728.8	1716.0	1718.3	1721.3	1721.3
12.5°	1706.2	1694.2	1688.2	1698.0	1701.0
15°	1678.4	1673.9	1672.4	1696.5	1676.1
17.5°	1639.3	1649.1	1640.1	1659.6	1662.6
20°	1598.7	1617.5	1616.0	1629.5	1625.0
22.5°	1565.6	1577.6	1577.6	1594.2	1607.7
25°	1532.5	1535.5	1531.8	1567.1	1561.1
27.5°	1489.7	1487.4	1499.4	1517.5	1529.5
30°	1428.8	1429.5	1446.0	1470.1	1481.4
32.5°	1373.1	1366.3	1386.6	1397.2	1385.1
35°	1303.2	1297.2	1297.9	1231.7	1192.6
37.5°	1207.7	1212.9	1143.8	1022.7	971.6
40°	1082.1	1092.6	955.0	864.8	836.2
42.5°	930.2	933.2	782.8	753.5	734.7
45°	758.0	791.1	659.5	651.2	624.1
47.5°	600.8	662.5	552.7	558.0	493.3
50°	488.8	550.4	479.8	482.0	385.0
52.5°	386.5	446.7	423.4	416.6	302.3
55°	298.5	357.2	365.5	362.5	236.1
57.5°	219.6	282.7	306.8	318.1	182.0
60°	160.9	230.9	254.2	276.7	137.6
62.5°	127.8	200.0	208.3	241.4	106.8
65°	112.0	184.2	165.4	209.0	84.2
67.5°	100.0	175.2	134.6	185.0	73.7
70°	90.2	157.9	116.6	165.4	69.9
72.5°	90.2	138.4	91.7	146.6	70.7
75°	82.0	118.1	63.2	124.1	70.7
77.5°	72.9	100.8	47.4	100.8	66.2
80°	63.2	79.0	39.1	77.5	59.4
82.5°	46.6	59.4	33.8	57.9	48.1
85°	30.1	48.9	34.6	42.1	33.8
87.5°	14.3	24.8	21.8	21.1	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)