

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: P291124

Luminaire Tested: **14GR-LD5-36-A-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291124
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-LD5-36-A-UNV-L92765-W2A1-U-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3468.0 lumens
Efficiency: N/A
Efficacy: 115.1 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

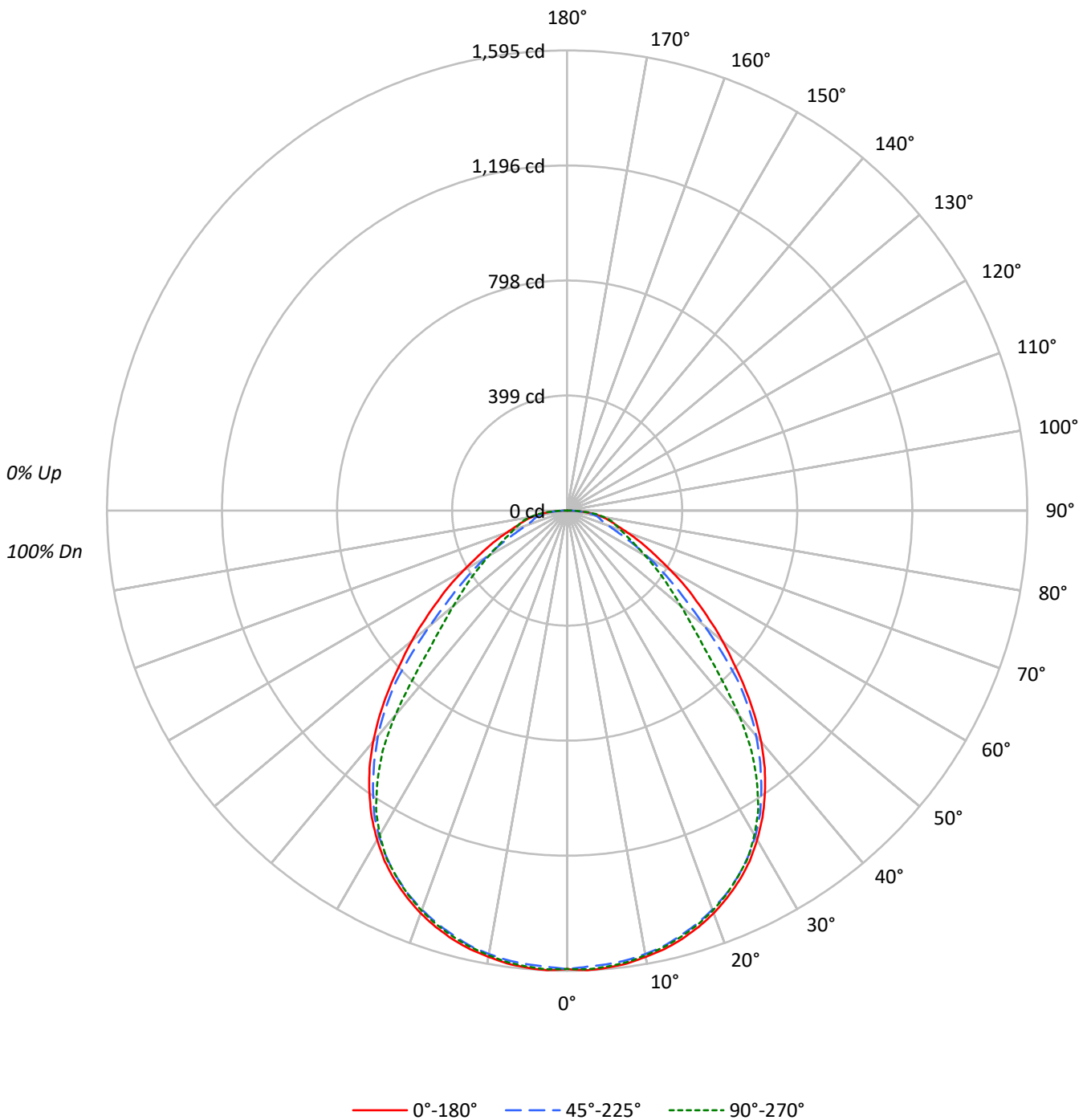
Input Watts (W): 30.132
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64					64			
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56					56			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44					44			
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40					40			
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36					36			
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33					33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4277	4277	4277
5°	4297	4264	4286
10°	4292	4265	4276
15°	4284	4245	4259
20°	4253	4214	4226
25°	4197	4157	4159
30°	4094	4052	4034
35°	3927	3855	3768
40°	3675	3582	3260
45°	3320	3194	2547
50°	2944	2593	2155
55°	2570	2128	1901
60°	2228	1751	1678
65°	1954	1405	1549
70°	1743	1191	1559
75°	1700	1256	1742
80°	1884	1585	1998
85°	1964	1692	2337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	4.3
10°-20°	431.9	12.5
20°-30°	646.2	18.6
30°-40°	729.4	21.0
40°-50°	618.8	17.8
50°-60°	418.7	12.1
60°-70°	249.9	7.2
70°-80°	156.5	4.5
80°-90°	65.8	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°	1228.9	35.4
0°-40°	1958.3	56.5
0°-60°	2995.7	86.4
0°-90°	3468.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3468.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1589	1589	1589	1589	1589	
5°	1591	1586	1579	1590	1587	151
15°	1538	1534	1524	1534	1529	434
25°	1414	1409	1400	1406	1401	650
35°	1195	1187	1174	1163	1147	745
45°	872	876	839	719	669	672
55°	548	522	454	406	405	493
65°	307	254	221	235	243	307
75°	164	146	121	160	168	176
85°	64	60	55	71	76	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1589.2	1589.2	1589.2	1589.2	1589.2
2.5°	1594.8	1590.0	1582.7	1592.4	1591.6
5°	1590.8	1586.0	1578.7	1590.0	1586.8
7.5°	1583.6	1579.5	1572.3	1582.7	1579.5
10°	1570.7	1567.4	1561.0	1569.9	1565.0
12.5°	1557.0	1554.6	1546.5	1554.6	1549.7
15°	1537.6	1534.4	1523.9	1534.4	1528.8
17.5°	1513.5	1509.4	1500.6	1509.4	1504.6
20°	1485.3	1480.5	1471.6	1480.5	1475.6
22.5°	1451.5	1447.4	1439.4	1447.4	1441.0
25°	1413.6	1408.8	1399.9	1406.3	1400.7
27.5°	1370.1	1363.7	1355.6	1360.4	1357.2
30°	1317.7	1309.7	1304.1	1304.1	1298.4
32.5°	1260.6	1254.9	1245.3	1239.6	1232.4
35°	1195.3	1187.3	1173.6	1163.1	1147.0
37.5°	1125.2	1115.6	1098.7	1072.1	1050.3
40°	1046.3	1034.2	1019.7	967.4	927.9
42.5°	961.7	959.3	934.3	844.9	790.2
45°	872.3	875.5	839.3	719.3	669.3
47.5°	782.1	793.4	727.3	609.7	584.0
50°	703.2	707.2	619.4	529.2	514.7
52.5°	621.8	615.4	528.4	465.6	455.1
55°	547.7	521.9	453.5	406.0	405.2
57.5°	482.5	435.0	387.4	352.0	356.0
60°	414.0	360.9	325.4	306.1	311.7
62.5°	353.6	302.9	271.4	265.8	275.5
65°	306.9	254.5	220.7	235.2	243.3
67.5°	262.6	218.3	179.6	214.3	217.5
70°	221.5	189.3	151.4	197.3	198.1
72.5°	187.7	167.5	131.3	178.8	181.2
75°	163.5	145.8	120.8	159.5	167.5
77.5°	143.4	124.8	112.0	137.7	151.4
80°	121.6	100.7	102.3	115.2	128.9
82.5°	93.4	78.1	81.4	95.0	104.7
85°	63.6	60.4	54.8	70.9	75.7
87.5°	33.8	32.2	28.2	40.3	37.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)