

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: P291019

Luminaire Tested: **14GR-LD5-32-A-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291019
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-LD5-32-A-UNV-L82765-W2A1-U-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3455.0 lumens
Efficiency: N/A
Efficacy: 129.0 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

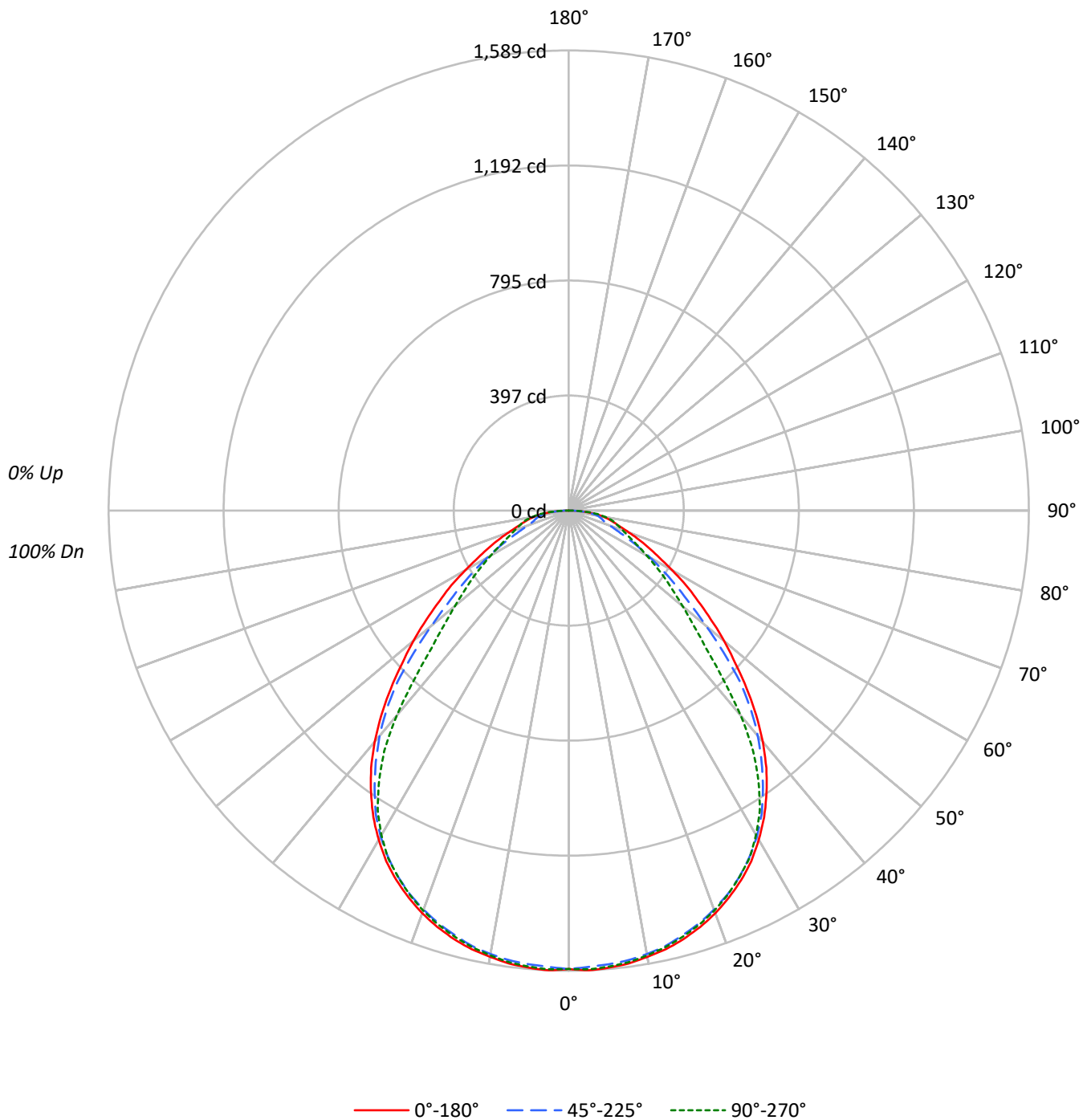
Input Watts (W): 26.784
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	0		
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74		
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64		
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56		
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50		
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44		
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40		
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36		
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33		
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4260	4260	4260
5°	4281	4249	4270
10°	4276	4249	4261
15°	4268	4230	4243
20°	4237	4198	4210
25°	4181	4141	4143
30°	4079	4037	4019
35°	3912	3841	3754
40°	3662	3569	3247
45°	3307	3182	2538
50°	2933	2583	2147
55°	2560	2120	1894
60°	2220	1745	1671
65°	1947	1400	1543
70°	1736	1187	1553
75°	1694	1252	1735
80°	1878	1579	1990
85°	1958	1686	2328



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.2	4.3
10°-20°	430.3	12.5
20°-30°	643.7	18.6
30°-40°	726.7	21.0
40°-50°	616.5	17.8
50°-60°	417.1	12.1
60°-70°	249.0	7.2
70°-80°	155.9	4.5
80°-90°	65.6	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°	1224.3	35.4
0°-40°	1950.9	56.5
0°-60°	2984.5	86.4
0°-90°	3455.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3455.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1583	1583	1583	1583	1583	
5°	1585	1580	1573	1584	1581	151
15°	1532	1529	1518	1529	1523	432
25°	1408	1404	1395	1401	1396	648
35°	1191	1183	1169	1159	1143	742
45°	869	872	836	717	667	670
55°	546	520	452	404	404	492
65°	306	254	220	234	242	306
75°	163	145	120	159	167	175
85°	63	60	55	71	75	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1583.2	1583.2	1583.2	1583.2	1583.2
2.5°	1588.9	1584.0	1576.8	1586.4	1585.6
5°	1584.8	1580.0	1572.8	1584.0	1580.8
7.5°	1577.6	1573.6	1566.4	1576.8	1573.6
10°	1564.8	1561.6	1555.1	1564.0	1559.2
12.5°	1551.1	1548.7	1540.7	1548.7	1543.9
15°	1531.9	1528.7	1518.2	1528.7	1523.1
17.5°	1507.8	1503.8	1495.0	1503.8	1499.0
20°	1479.7	1474.9	1466.1	1474.9	1470.1
22.5°	1446.0	1442.0	1434.0	1442.0	1435.6
25°	1408.3	1403.5	1394.7	1401.1	1395.5
27.5°	1365.0	1358.5	1350.5	1355.3	1352.1
30°	1312.8	1304.8	1299.2	1299.2	1293.5
32.5°	1255.8	1250.2	1240.6	1235.0	1227.7
35°	1190.8	1182.8	1169.2	1158.7	1142.7
37.5°	1121.0	1111.4	1094.5	1068.1	1046.4
40°	1042.4	1030.3	1015.9	963.7	924.4
42.5°	958.1	955.7	930.8	841.8	787.2
45°	869.1	872.3	836.2	716.6	666.8
47.5°	779.2	790.4	724.6	607.5	581.8
50°	700.5	704.6	617.1	527.2	512.8
52.5°	619.5	613.1	526.4	463.8	453.4
55°	545.7	520.0	451.8	404.4	403.6
57.5°	480.7	433.3	386.0	350.7	354.7
60°	412.5	359.5	324.2	304.9	310.5
62.5°	352.3	301.7	270.4	264.8	274.4
65°	305.7	253.6	219.9	234.3	242.3
67.5°	261.6	217.5	178.9	213.5	216.7
70°	220.7	188.6	150.9	196.6	197.4
72.5°	187.0	166.9	130.8	178.1	180.6
75°	162.9	145.2	120.4	158.9	166.9
77.5°	142.8	124.4	111.5	137.2	150.9
80°	121.2	100.3	101.9	114.8	128.4
82.5°	93.1	77.8	81.0	94.7	104.3
85°	63.4	60.2	54.6	70.6	75.4
87.5°	33.7	32.1	28.1	40.1	37.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)