

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: P291014

Luminaire Tested: **14GR-LD5-32-A-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291014
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-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: 3299.0 lumens
Efficiency: N/A
Efficacy: 127.1 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

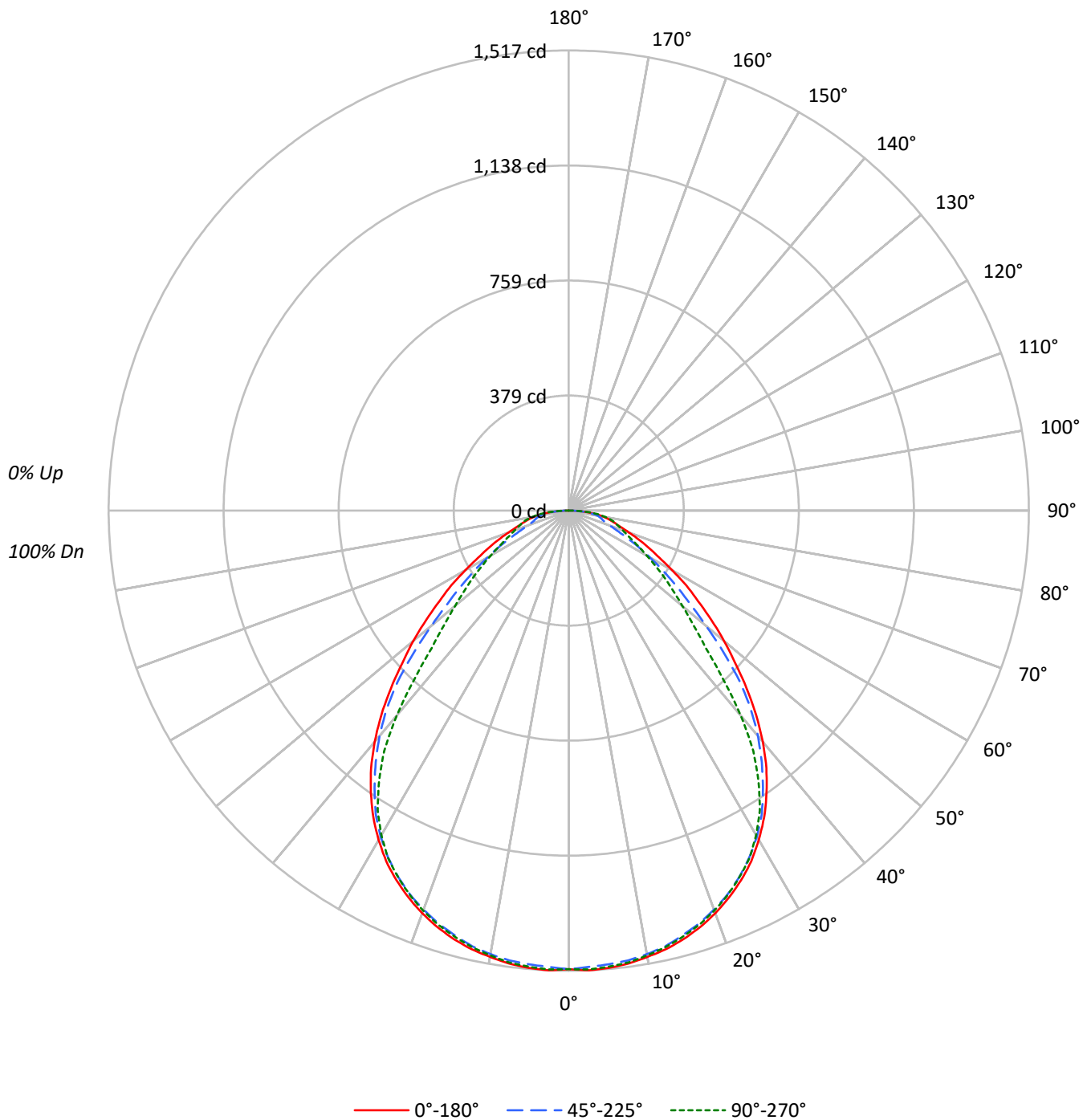
Input Watts (W): 25.947
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	4068	4068	4068
5°	4088	4057	4077
10°	4083	4057	4068
15°	4075	4039	4052
20°	4046	4009	4020
25°	3993	3954	3956
30°	3895	3855	3838
35°	3735	3667	3584
40°	3496	3407	3101
45°	3158	3038	2423
50°	2800	2467	2050
55°	2444	2024	1808
60°	2119	1666	1596
65°	1859	1337	1473
70°	1658	1133	1483
75°	1617	1195	1657
80°	1793	1508	1900
85°	1868	1609	2223



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.4	4.3
10°-20°	410.9	12.5
20°-30°	614.7	18.6
30°-40°	693.9	21.0
40°-50°	588.6	17.8
50°-60°	398.3	12.1
60°-70°	237.7	7.2
70°-80°	148.9	4.5
80°-90°	62.6	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°	1169.0	35.4
0°-40°	1862.8	56.5
0°-60°	2849.8	86.4
0°-90°	3299.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3299.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1512	1512	1512	1512	1512	
5°	1513	1509	1502	1512	1509	144
15°	1463	1460	1450	1460	1454	412
25°	1345	1340	1332	1338	1332	618
35°	1137	1129	1116	1106	1091	708
45°	830	833	798	684	637	639
55°	521	496	431	386	385	469
65°	292	242	210	224	231	292
75°	156	139	115	152	159	167
85°	60	58	52	67	72	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1511.7	1511.7	1511.7	1511.7	1511.7
2.5°	1517.1	1512.5	1505.6	1514.8	1514.0
5°	1513.3	1508.7	1501.8	1512.5	1509.4
7.5°	1506.4	1502.6	1495.7	1505.6	1502.6
10°	1494.1	1491.1	1484.9	1493.4	1488.8
12.5°	1481.1	1478.8	1471.1	1478.8	1474.2
15°	1462.7	1459.6	1449.7	1459.6	1454.3
17.5°	1439.7	1435.9	1427.5	1435.9	1431.3
20°	1412.9	1408.3	1399.9	1408.3	1403.7
22.5°	1380.7	1376.9	1369.2	1376.9	1370.8
25°	1344.7	1340.1	1331.7	1337.8	1332.5
27.5°	1303.3	1297.2	1289.5	1294.1	1291.1
30°	1253.5	1245.9	1240.5	1240.5	1235.1
32.5°	1199.1	1193.8	1184.6	1179.2	1172.3
35°	1137.1	1129.4	1116.4	1106.4	1091.1
37.5°	1070.4	1061.2	1045.1	1019.8	999.1
40°	995.3	983.8	970.0	920.2	882.7
42.5°	914.9	912.6	888.8	803.8	751.7
45°	829.8	832.9	798.4	684.2	636.7
47.5°	744.0	754.7	691.9	580.0	555.5
50°	668.9	672.7	589.2	503.4	489.6
52.5°	591.5	585.4	502.6	442.9	432.9
55°	521.0	496.5	431.4	386.2	385.4
57.5°	459.0	413.8	368.6	334.8	338.7
60°	393.8	343.3	309.6	291.2	296.5
62.5°	336.4	288.1	258.2	252.9	262.0
65°	291.9	242.1	209.9	223.7	231.4
67.5°	249.8	207.6	170.9	203.8	206.9
70°	210.7	180.1	144.0	187.7	188.5
72.5°	178.5	159.4	124.9	170.1	172.4
75°	155.5	138.7	114.9	151.7	159.4
77.5°	136.4	118.8	106.5	131.0	144.0
80°	115.7	95.8	97.3	109.6	122.6
82.5°	88.9	74.3	77.4	90.4	99.6
85°	60.5	57.5	52.1	67.4	72.0
87.5°	32.2	30.6	26.8	38.3	36.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)