

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: P291012

Luminaire Tested: **14GR-LD5-32-A-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291012
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-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3121.0 lumens
Efficiency: N/A
Efficacy: 122.5 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

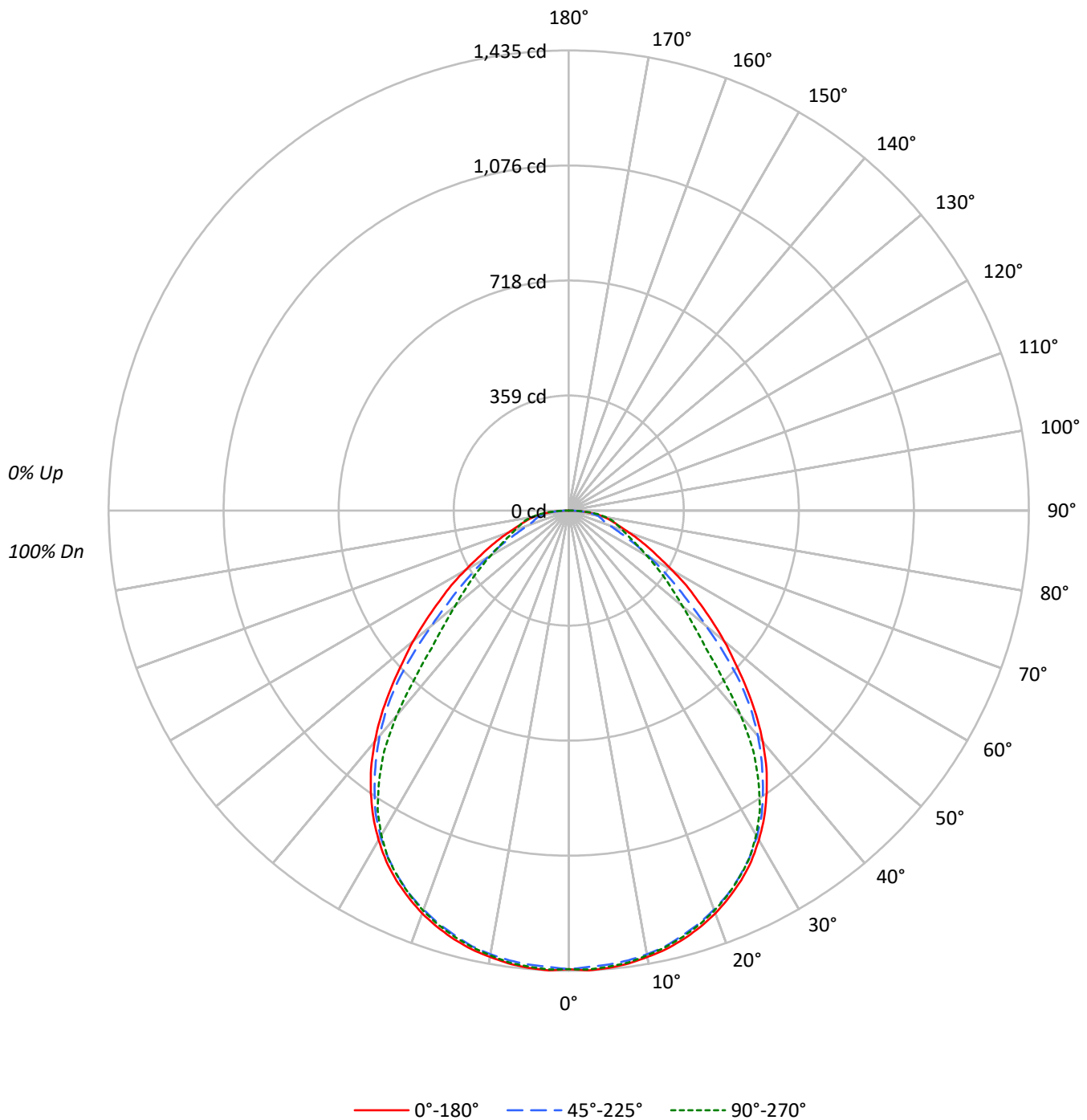
Input Watts (W): 25.482
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3849	3849	3849
5°	3867	3838	3857
10°	3862	3839	3848
15°	3855	3821	3833
20°	3828	3792	3803
25°	3777	3741	3743
30°	3685	3647	3631
35°	3534	3469	3391
40°	3308	3224	2934
45°	2987	2874	2293
50°	2649	2334	1939
55°	2312	1915	1711
60°	2005	1576	1510
65°	1759	1265	1394
70°	1568	1072	1403
75°	1529	1130	1568
80°	1697	1427	1798
85°	1769	1522	2103



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.7	4.3
10°-20°	388.7	12.5
20°-30°	581.5	18.6
30°-40°	656.4	21.0
40°-50°	556.9	17.8
50°-60°	376.8	12.1
60°-70°	224.9	7.2
70°-80°	140.9	4.5
80°-90°	59.3	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°	1105.9	35.4
0°-40°	1762.3	56.5
0°-60°	2696.0	86.4
0°-90°	3121.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3121.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1430	1430	1430	1430	1430	
5°	1432	1427	1421	1431	1428	136
15°	1384	1381	1372	1381	1376	390
25°	1272	1268	1260	1266	1261	585
35°	1076	1068	1056	1047	1032	670
45°	785	788	755	647	602	605
55°	493	470	408	365	365	444
65°	276	229	199	212	219	276
75°	147	131	109	144	151	158
85°	57	54	49	64	68	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1430.2	1430.2	1430.2	1430.2	1430.2
2.5°	1435.3	1430.9	1424.4	1433.1	1432.4
5°	1431.6	1427.3	1420.8	1430.9	1428.0
7.5°	1425.1	1421.5	1415.0	1424.4	1421.5
10°	1413.5	1410.6	1404.8	1412.8	1408.4
12.5°	1401.2	1399.0	1391.8	1399.0	1394.7
15°	1383.8	1380.9	1371.5	1380.9	1375.8
17.5°	1362.0	1358.4	1350.4	1358.4	1354.1
20°	1336.7	1332.3	1324.3	1332.3	1328.0
22.5°	1306.2	1302.6	1295.4	1302.6	1296.8
25°	1272.2	1267.8	1259.8	1265.6	1260.6
27.5°	1233.0	1227.2	1220.0	1224.3	1221.4
30°	1185.9	1178.6	1173.6	1173.6	1168.5
32.5°	1134.4	1129.4	1120.7	1115.6	1109.1
35°	1075.7	1068.5	1056.1	1046.7	1032.2
37.5°	1012.7	1004.0	988.7	964.8	945.2
40°	941.6	930.7	917.7	870.6	835.1
42.5°	865.5	863.3	840.9	760.4	711.1
45°	785.0	787.9	755.3	647.3	602.4
47.5°	703.9	714.0	654.6	548.7	525.5
50°	632.8	636.4	557.4	476.2	463.2
52.5°	559.6	553.8	475.5	419.0	409.6
55°	492.9	469.7	408.1	365.3	364.6
57.5°	434.2	391.4	348.7	316.8	320.4
60°	372.6	324.7	292.8	275.5	280.5
62.5°	318.2	272.6	244.3	239.2	247.9
65°	276.2	229.1	198.6	211.7	218.9
67.5°	236.3	196.4	161.6	192.8	195.7
70°	199.3	170.3	136.3	177.6	178.3
72.5°	168.9	150.8	118.2	160.9	163.1
75°	147.1	131.2	108.7	143.5	150.8
77.5°	129.0	112.4	100.8	124.0	136.3
80°	109.5	90.6	92.1	103.7	116.0
82.5°	84.1	70.3	73.2	85.5	94.2
85°	57.3	54.4	49.3	63.8	68.1
87.5°	30.4	29.0	25.4	36.2	34.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)