

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: P290964

Luminaire Tested: **14GR-LD5-32-A-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290964
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-L83050-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: 3123.0 lumens
Efficiency: N/A
Efficacy: 122.1 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

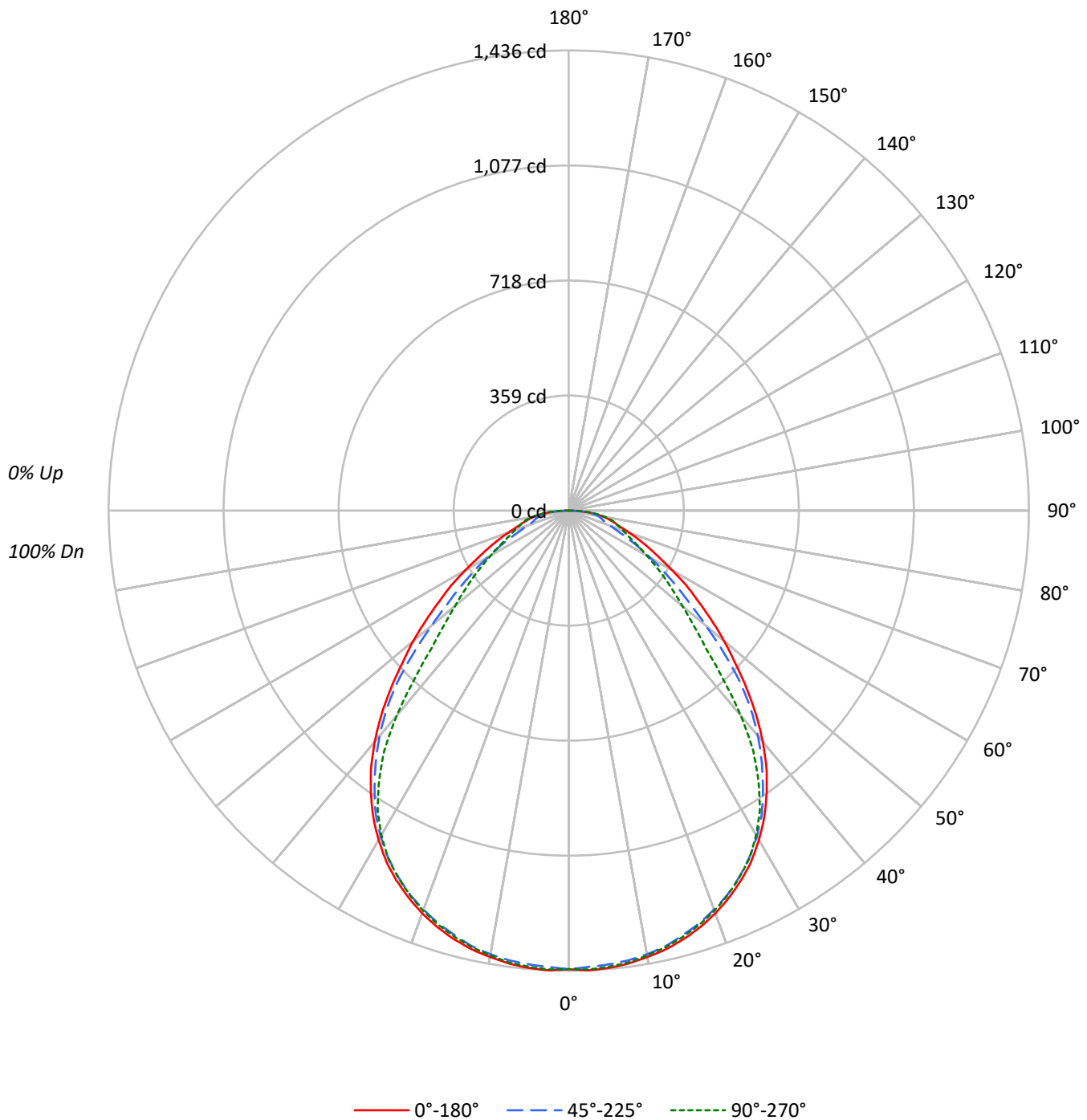
Input Watts (W): 25.575
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290964

CATALOG NUMBER: 14GR-LD5-32-A-UNV-L83050-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P290964

CATALOG NUMBER: 14GR-LD5-32-A-UNV-L83050-W2A1-U-3000K

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	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°	3851	3851	3851
5°	3870	3840	3860
10°	3865	3841	3851
15°	3858	3823	3835
20°	3830	3795	3805
25°	3780	3743	3745
30°	3687	3649	3633
35°	3536	3472	3393
40°	3310	3226	2935
45°	2989	2876	2294
50°	2651	2335	1940
55°	2314	1916	1711
60°	2006	1577	1511
65°	1760	1265	1395
70°	1570	1073	1404
75°	1530	1131	1569
80°	1697	1427	1799
85°	1769	1522	2106



TEST NUMBER: P290964

CATALOG NUMBER: 14GR-LD5-32-A-UNV-L83050-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.8	4.3
10°-20°	389.0	12.5
20°-30°	581.9	18.6
30°-40°	656.8	21.0
40°-50°	557.2	17.8
50°-60°	377.0	12.1
60°-70°	225.1	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°	1106.6	35.4
0°-40°	1763.5	56.5
0°-60°	2697.7	86.4
0°-90°	3123.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3123.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1431	1431	1431	1431	1431	
5°	1432	1428	1422	1432	1429	136
15°	1385	1382	1372	1382	1377	390
25°	1273	1269	1261	1266	1261	585
35°	1076	1069	1057	1047	1033	671
45°	786	788	756	648	603	605
55°	493	470	408	366	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	



TEST NUMBER: P290964

CATALOG NUMBER: 14GR-LD5-32-A-UNV-L83050-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1431.1	1431.1	1431.1	1431.1	1431.1
2.5°	1436.2	1431.8	1425.3	1434.0	1433.3
5°	1432.5	1428.2	1421.7	1431.8	1428.9
7.5°	1426.0	1422.4	1415.9	1425.3	1422.4
10°	1414.4	1411.5	1405.7	1413.7	1409.3
12.5°	1402.1	1399.9	1392.7	1399.9	1395.6
15°	1384.7	1381.8	1372.3	1381.8	1376.7
17.5°	1362.9	1359.3	1351.3	1359.3	1354.9
20°	1337.5	1333.2	1325.2	1333.2	1328.8
22.5°	1307.1	1303.4	1296.2	1303.4	1297.6
25°	1273.0	1268.6	1260.6	1266.4	1261.4
27.5°	1233.8	1228.0	1220.7	1225.1	1222.2
30°	1186.7	1179.4	1174.3	1174.3	1169.2
32.5°	1135.2	1130.1	1121.4	1116.3	1109.8
35°	1076.4	1069.2	1056.8	1047.4	1032.9
37.5°	1013.3	1004.6	989.4	965.4	945.8
40°	942.2	931.3	918.3	871.1	835.6
42.5°	866.1	863.9	841.4	760.9	711.6
45°	785.5	788.4	755.8	647.7	602.8
47.5°	704.3	714.5	655.0	549.1	525.9
50°	633.2	636.8	557.8	476.5	463.5
52.5°	560.0	554.2	475.8	419.2	409.8
55°	493.2	470.0	408.4	365.6	364.8
57.5°	434.5	391.7	348.9	317.0	320.6
60°	372.8	325.0	293.0	275.6	280.7
62.5°	318.4	272.7	244.4	239.4	248.1
65°	276.4	229.2	198.7	211.8	219.1
67.5°	236.5	196.6	161.8	192.9	195.8
70°	199.5	170.5	136.4	177.7	178.4
72.5°	169.0	150.9	118.2	161.0	163.2
75°	147.2	131.3	108.8	143.6	150.9
77.5°	129.1	112.4	100.8	124.0	136.4
80°	109.5	90.7	92.1	103.7	116.1
82.5°	84.1	70.4	73.3	85.6	94.3
85°	57.3	54.4	49.3	63.8	68.2
87.5°	30.5	29.0	25.4	36.3	34.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)