

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: P291112

Luminaire Tested: **14GR-LD5-32-A-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291112
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-L92765-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2919.0 lumens
Efficiency: N/A
Efficacy: 112.5 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

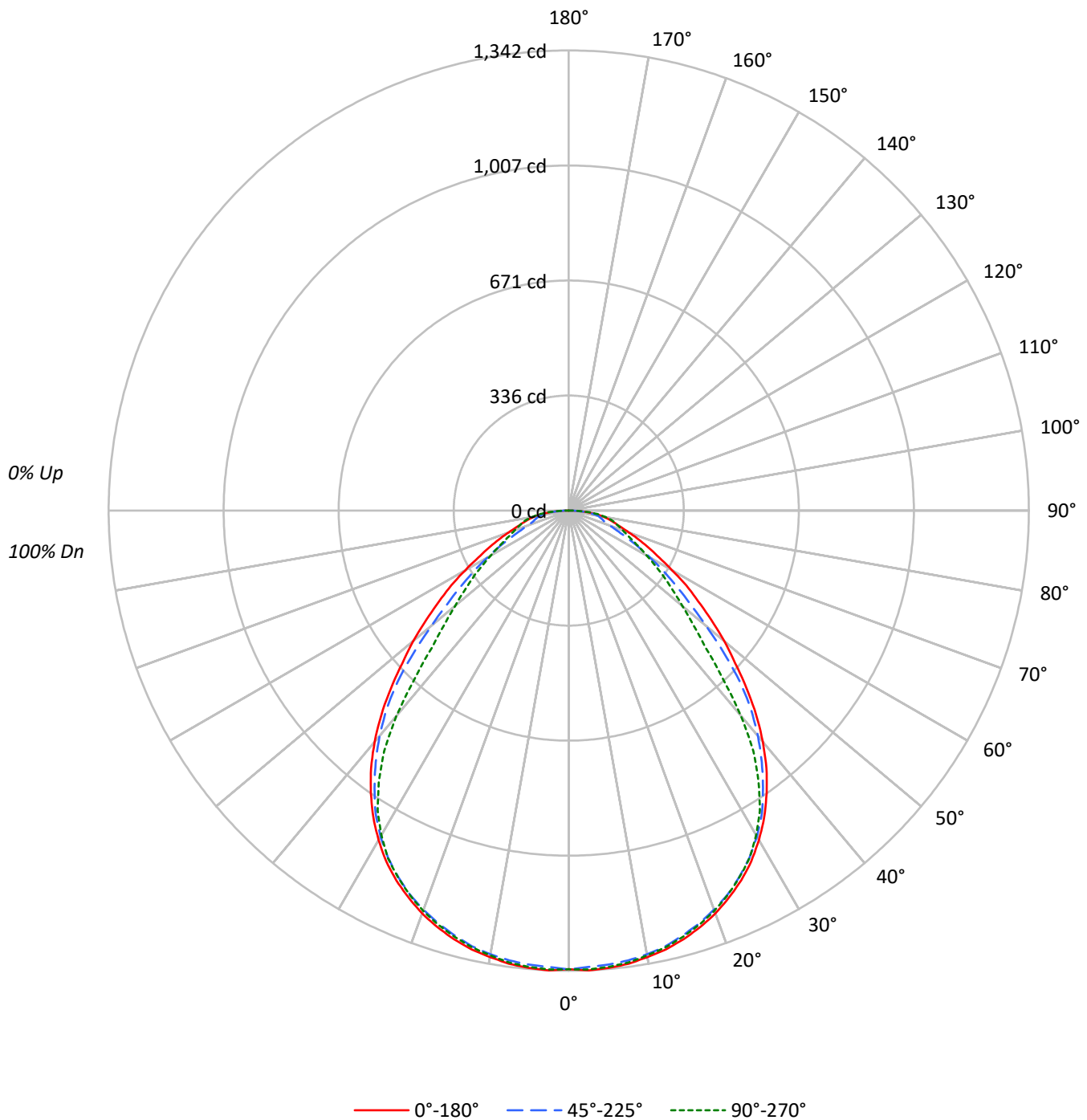
Input Watts (W): 25.947
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3599	3599	3599
5°	3617	3589	3608
10°	3612	3590	3600
15°	3606	3573	3585
20°	3580	3547	3557
25°	3533	3499	3501
30°	3446	3411	3396
35°	3305	3245	3171
40°	3094	3015	2744
45°	2794	2688	2144
50°	2478	2183	1814
55°	2163	1791	1600
60°	1876	1474	1412
65°	1645	1183	1303
70°	1467	1003	1312
75°	1431	1057	1466
80°	1587	1334	1681
85°	1655	1423	1967



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.9	4.3
10°-20°	363.6	12.5
20°-30°	543.9	18.6
30°-40°	613.9	21.0
40°-50°	520.8	17.8
50°-60°	352.4	12.1
60°-70°	210.3	7.2
70°-80°	131.7	4.5
80°-90°	55.4	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°	1034.3	35.4
0°-40°	1648.3	56.5
0°-60°	2521.5	86.4
0°-90°	2919.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2919.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1338	1338	1338	1338	1338	
5°	1339	1335	1329	1338	1336	127
15°	1294	1292	1283	1292	1287	365
25°	1190	1186	1178	1184	1179	547
35°	1006	999	988	979	965	627
45°	734	737	706	605	563	566
55°	461	439	382	342	341	415
65°	258	214	186	198	205	258
75°	138	123	102	134	141	148
85°	54	51	46	60	64	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1337.6	1337.6	1337.6	1337.6	1337.6
2.5°	1342.4	1338.3	1332.2	1340.3	1339.6
5°	1339.0	1334.9	1328.8	1338.3	1335.6
7.5°	1332.9	1329.5	1323.4	1332.2	1329.5
10°	1322.0	1319.3	1313.9	1321.3	1317.3
12.5°	1310.5	1308.5	1301.7	1308.5	1304.4
15°	1294.2	1291.5	1282.7	1291.5	1286.8
17.5°	1273.9	1270.5	1263.0	1270.5	1266.4
20°	1250.2	1246.1	1238.6	1246.1	1242.0
22.5°	1221.7	1218.3	1211.5	1218.3	1212.9
25°	1189.8	1185.8	1178.3	1183.7	1179.0
27.5°	1153.2	1147.8	1141.0	1145.1	1142.4
30°	1109.1	1102.4	1097.6	1097.6	1092.9
32.5°	1061.0	1056.3	1048.1	1043.4	1037.3
35°	1006.1	999.3	987.8	979.0	965.4
37.5°	947.1	939.0	924.7	902.4	884.1
40°	880.7	870.5	858.3	814.2	781.0
42.5°	809.5	807.5	786.4	711.2	665.1
45°	734.2	736.9	706.4	605.4	563.4
47.5°	658.3	667.8	612.2	513.2	491.5
50°	591.9	595.2	521.4	445.4	433.2
52.5°	523.4	518.0	444.7	391.9	383.0
55°	461.0	439.3	381.7	341.7	341.0
57.5°	406.1	366.1	326.1	296.3	299.7
60°	348.5	303.7	273.9	257.6	262.4
62.5°	297.6	254.9	228.5	223.7	231.9
65°	258.3	214.2	185.8	198.0	204.7
67.5°	221.0	183.7	151.2	180.3	183.0
70°	186.4	159.3	127.5	166.1	166.8
72.5°	158.0	141.0	110.5	150.5	152.5
75°	137.6	122.7	101.7	134.2	141.0
77.5°	120.7	105.1	94.2	115.9	127.5
80°	102.4	84.7	86.1	96.9	108.5
82.5°	78.6	65.8	68.5	80.0	88.1
85°	53.6	50.8	46.1	59.7	63.7
87.5°	28.5	27.1	23.7	33.9	31.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)