

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: P291113

Luminaire Tested: **14GR-LD5-32-A-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291113
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-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2995.0 lumens
Efficiency: N/A
Efficacy: 114.6 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

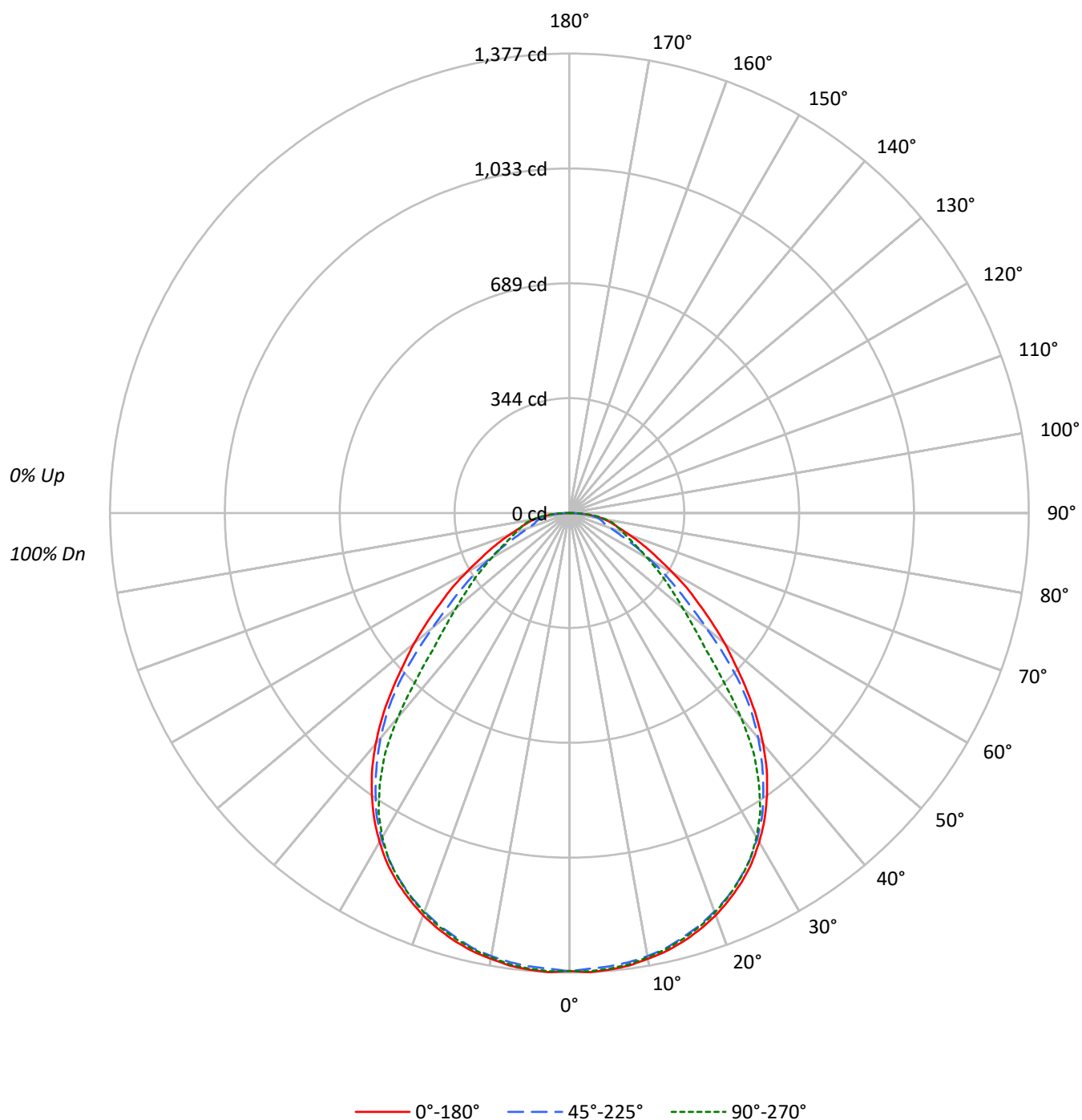
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3693	3693	3693
5°	3711	3683	3702
10°	3706	3684	3693
15°	3699	3667	3678
20°	3673	3639	3649
25°	3625	3590	3592
30°	3536	3499	3484
35°	3391	3329	3254
40°	3174	3093	2815
45°	2867	2758	2200
50°	2542	2239	1861
55°	2219	1837	1642
60°	1924	1512	1449
65°	1687	1214	1338
70°	1505	1029	1346
75°	1468	1084	1504
80°	1627	1368	1725
85°	1698	1460	2019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.2	4.3
10°-20°	373.0	12.5
20°-30°	558.0	18.6
30°-40°	629.9	21.0
40°-50°	534.4	17.8
50°-60°	361.6	12.1
60°-70°	215.8	7.2
70°-80°	135.2	4.5
80°-90°	56.9	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°	1061.3	35.4
0°-40°	1691.2	56.5
0°-60°	2587.1	86.4
0°-90°	2995.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2995.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1372	1372	1372	1372	1372	
5°	1374	1370	1363	1373	1370	131
15°	1328	1325	1316	1325	1320	374
25°	1221	1217	1209	1214	1210	561
35°	1032	1025	1014	1004	991	643
45°	753	756	725	621	578	580
55°	473	451	392	351	350	426
65°	265	220	191	203	210	265
75°	141	126	104	138	145	152
85°	55	52	47	61	65	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1372.4	1372.4	1372.4	1372.4	1372.4
2.5°	1377.3	1373.1	1366.9	1375.2	1374.5
5°	1373.8	1369.7	1363.4	1373.1	1370.4
7.5°	1367.6	1364.1	1357.8	1366.9	1364.1
10°	1356.4	1353.7	1348.1	1355.7	1351.6
12.5°	1344.6	1342.5	1335.6	1342.5	1338.4
15°	1327.9	1325.1	1316.1	1325.1	1320.3
17.5°	1307.1	1303.6	1295.9	1303.6	1299.4
20°	1282.7	1278.5	1270.9	1278.5	1274.4
22.5°	1253.5	1250.0	1243.1	1250.0	1244.4
25°	1220.8	1216.6	1209.0	1214.5	1209.7
27.5°	1183.2	1177.7	1170.7	1174.9	1172.1
30°	1138.0	1131.1	1126.2	1126.2	1121.3
32.5°	1088.6	1083.8	1075.4	1070.5	1064.3
35°	1032.3	1025.3	1013.5	1004.5	990.6
37.5°	971.8	963.4	948.8	925.9	907.1
40°	903.6	893.2	880.6	835.4	801.3
42.5°	830.6	828.5	806.9	729.7	682.4
45°	753.3	756.1	724.8	621.2	578.1
47.5°	675.4	685.2	628.1	526.6	504.3
50°	607.3	610.7	534.9	457.0	444.5
52.5°	537.0	531.4	456.3	402.1	393.0
55°	473.0	450.8	391.6	350.6	349.9
57.5°	416.7	375.6	334.6	304.0	307.5
60°	357.5	311.6	281.0	264.3	269.2
62.5°	305.4	261.5	234.4	229.6	237.9
65°	265.0	219.8	190.6	203.1	210.1
67.5°	226.8	188.5	155.1	185.0	187.8
70°	191.3	163.5	130.8	170.4	171.1
72.5°	162.1	144.7	113.4	154.4	156.5
75°	141.2	125.9	104.3	137.7	144.7
77.5°	123.8	107.8	96.7	118.9	130.8
80°	105.0	87.0	88.3	99.5	111.3
82.5°	80.7	67.5	70.3	82.1	90.4
85°	55.0	52.2	47.3	61.2	65.4
87.5°	29.2	27.8	24.3	34.8	32.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)