

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: P290722

Luminaire Tested: **14GR-LD5-32-F1-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290722
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-32-F1-UNV-L92765-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3023.0 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

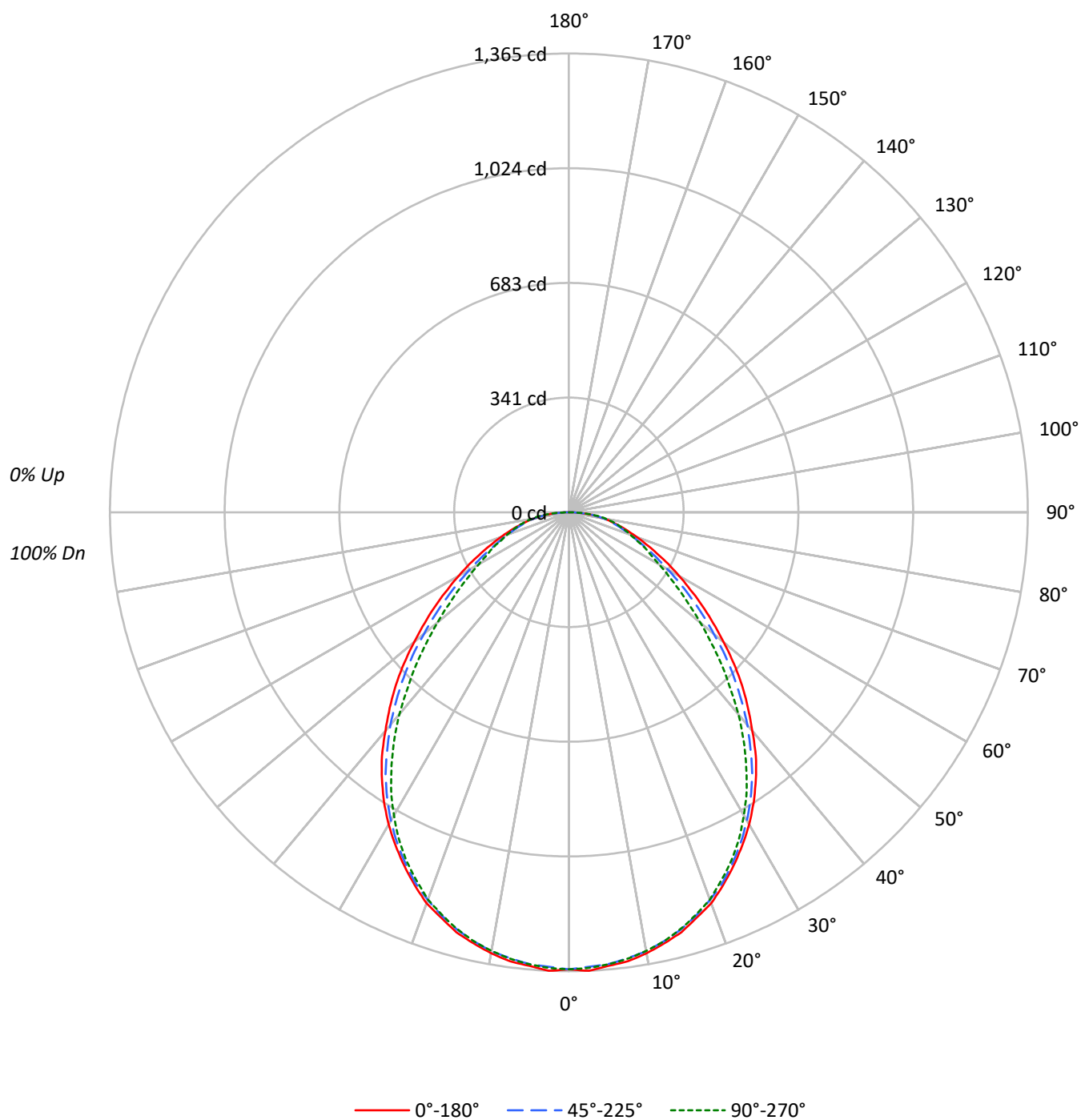
Input Watts (W): 26.226
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	101	93	87	81	98	91	85	80	88	83	78		84	80	77		81
3	92	83	75	69	90	81	74	68	78	72	67		75	70	66		73
4	85	74	66	59	83	73	65	59	70	64	58		68	62	57		66
5	79	67	58	52	77	66	58	52	64	57	51		62	55	51		60
6	73	61	52	46	71	60	52	46	58	51	45		56	50	45		55
7	68	55	47	41	66	54	47	41	53	46	41		52	45	40		50
8	64	51	43	37	62	50	42	37	49	42	37		47	41	36		46
9	60	47	39	34	58	46	39	33	45	38	33		44	38	33		43
10	56	43	36	31	55	43	35	31	42	35	30		41	35	30		40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3658	3658	3658
5°	3658	3644	3646
10°	3639	3622	3620
15°	3602	3581	3575
20°	3544	3514	3510
25°	3442	3419	3395
30°	3331	3290	3234
35°	3185	3123	3021
40°	2982	2899	2755
45°	2769	2645	2452
50°	2512	2356	2135
55°	2273	2081	1866
60°	2040	1823	1663
65°	1831	1628	1592
70°	1690	1515	1532
75°	1614	1520	1606
80°	1632	1621	1750
85°	1689	1667	1862



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.3	4.2
10°-20°	362.8	12.0
20°-30°	529.9	17.5
30°-40°	590.4	19.5
40°-50°	532.0	17.6
50°-60°	397.6	13.2
60°-70°	262.3	8.7
70°-80°	160.1	5.3
80°-90°	59.4	2.0
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°	1021.0	33.8
0°-40°	1611.5	53.3
0°-60°	2541.1	84.1
0°-90°	3023.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3023.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1360	1360	1360	1360	1360	
5°	1354	1353	1349	1356	1350	129
15°	1293	1288	1285	1293	1283	364
25°	1159	1155	1152	1154	1143	534
35°	969	961	951	934	920	604
45°	728	720	695	663	644	560
55°	484	477	444	407	398	434
65°	288	279	256	245	250	288
75°	155	152	146	151	154	166
85°	55	53	54	60	60	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1359.5	1359.5	1359.5	1359.5	1359.5
2.5°	1365.1	1358.8	1353.3	1361.6	1356.7
5°	1354.0	1352.6	1349.1	1356.1	1349.8
7.5°	1347.0	1342.2	1338.0	1346.4	1339.4
10°	1331.8	1329.0	1325.6	1332.5	1324.9
12.5°	1313.1	1310.3	1306.9	1315.2	1306.9
15°	1293.0	1288.1	1285.4	1293.0	1283.3
17.5°	1263.9	1261.8	1257.7	1265.3	1255.6
20°	1237.6	1229.9	1227.2	1232.7	1225.8
22.5°	1199.5	1193.9	1193.2	1196.7	1184.9
25°	1159.3	1155.1	1151.6	1153.7	1143.3
27.5°	1117.0	1111.5	1107.3	1106.6	1095.5
30°	1072.0	1065.0	1058.8	1053.2	1040.8
32.5°	1022.8	1014.4	1006.1	997.1	984.0
35°	969.4	961.1	950.7	934.1	919.5
37.5°	913.3	903.6	886.9	867.5	853.0
40°	848.8	844.0	825.3	800.3	784.4
42.5°	788.5	783.0	759.4	731.7	710.2
45°	727.6	719.9	695.0	663.1	644.4
47.5°	665.2	657.6	629.9	590.4	573.7
50°	600.1	595.9	562.7	526.6	510.0
52.5°	540.5	535.6	501.7	465.6	450.4
55°	484.4	476.7	443.5	406.7	397.7
57.5°	428.2	419.9	388.7	357.5	351.3
60°	379.0	368.6	338.8	314.6	309.0
62.5°	332.6	320.8	295.9	277.2	274.4
65°	287.6	278.6	255.7	245.3	250.1
67.5°	248.8	239.8	223.1	219.0	217.6
70°	214.8	206.5	192.6	194.0	194.7
72.5°	183.6	178.8	168.4	171.8	174.6
75°	155.2	152.4	146.2	151.1	154.5
77.5°	129.6	127.5	124.7	128.9	134.4
80°	105.3	103.9	104.6	107.4	112.9
82.5°	81.1	78.3	80.4	85.9	89.4
85°	54.7	52.7	54.0	59.6	60.3
87.5°	25.6	25.6	24.9	29.1	29.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)