

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: P290821

Luminaire Tested: **14GR-LD5-32-F125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290821
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-32-F125-UNV-L82765-W2A1-U-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3400.0 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

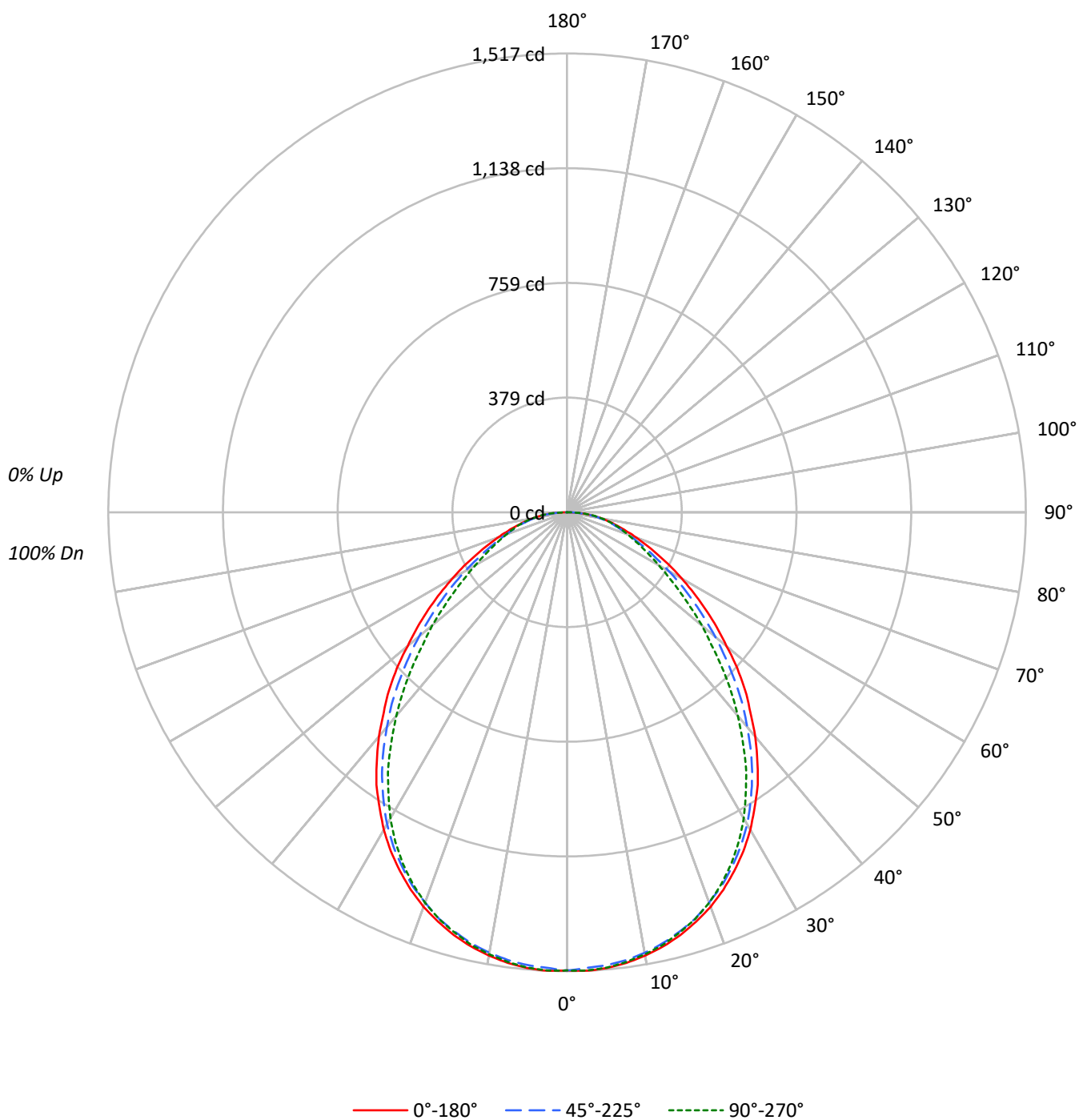
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	58		66
5	79	67	58	52	77	66	58	52	64	57	51		62	55	51		60
6	73	60	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		51	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°	4076	4076	4076
5°	4085	4059	4081
10°	4067	4041	4054
15°	4031	4000	4006
20°	3974	3931	3933
25°	3884	3836	3810
30°	3764	3700	3630
35°	3610	3505	3390
40°	3400	3255	3084
45°	3171	2979	2758
50°	2883	2673	2436
55°	2624	2370	2123
60°	2354	2087	1885
65°	2099	1860	1733
70°	1909	1696	1677
75°	1784	1651	1734
80°	1793	1706	1805
85°	1874	1751	1995



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.2	4.2
10°-20°	406.0	11.9
20°-30°	595.3	17.5
30°-40°	664.5	19.5
40°-50°	601.6	17.7
50°-60°	454.2	13.4
60°-70°	296.9	8.7
70°-80°	174.4	5.1
80°-90°	63.8	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°	1144.6	33.7
0°-40°	1809.0	53.2
0°-60°	2864.8	84.3
0°-90°	3400.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3400.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1515	1515	1515	1515	1515	
5°	1512	1509	1503	1512	1511	144
15°	1447	1444	1436	1444	1438	408
25°	1308	1303	1292	1290	1283	602
35°	1099	1089	1067	1043	1032	684
45°	833	820	783	741	725	640
55°	559	547	505	465	452	501
65°	330	319	292	275	272	331
75°	172	167	159	162	167	184
85°	61	58	57	64	65	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1514.7	1514.7	1514.7	1514.7	1514.7
2.5°	1517.1	1514.7	1507.5	1517.1	1516.3
5°	1512.3	1509.1	1502.7	1511.5	1510.7
7.5°	1502.7	1499.5	1493.1	1501.1	1499.5
10°	1488.3	1485.2	1478.8	1487.5	1483.6
12.5°	1470.0	1466.8	1459.6	1467.6	1464.4
15°	1446.8	1444.5	1435.7	1443.7	1438.1
17.5°	1418.9	1414.9	1408.5	1413.3	1409.3
20°	1387.8	1383.0	1372.6	1377.4	1373.4
22.5°	1350.3	1343.9	1336.7	1336.7	1331.1
25°	1308.0	1303.2	1292.0	1289.6	1283.2
27.5°	1262.5	1258.5	1244.1	1240.2	1229.0
30°	1211.4	1205.8	1190.7	1177.9	1168.3
32.5°	1154.8	1150.8	1130.0	1113.3	1099.7
35°	1098.9	1089.3	1067.0	1043.0	1031.9
37.5°	1033.5	1026.3	998.3	968.8	953.7
40°	968.0	959.2	926.5	893.8	877.8
42.5°	897.0	889.0	857.9	818.8	802.0
45°	833.2	820.4	782.9	740.6	724.6
47.5°	762.9	749.4	709.5	664.8	646.4
50°	688.7	679.9	638.4	595.3	581.8
52.5°	622.5	608.9	569.8	527.5	513.1
55°	559.4	546.7	505.2	465.3	452.5
57.5°	496.4	482.0	446.1	410.2	397.4
60°	437.3	423.0	387.8	358.3	350.3
62.5°	383.9	367.9	336.8	313.6	308.0
65°	329.6	319.2	292.1	275.3	272.1
67.5°	284.1	271.3	249.8	241.8	240.2
70°	242.6	233.8	215.5	213.1	213.1
72.5°	205.1	197.9	184.3	185.9	188.3
75°	171.6	166.8	158.8	162.0	166.8
77.5°	142.8	138.1	133.3	138.1	141.3
80°	115.7	110.9	110.1	114.1	116.5
82.5°	87.0	83.0	83.8	90.2	92.6
85°	60.7	58.3	56.7	63.8	64.6
87.5°	31.1	29.5	28.7	34.3	32.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)