

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: P291996

Luminaire Tested: **22GR-LD5-32-F125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291996
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-32-F125-UNV-L82765-W2A1-U-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3319.0 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

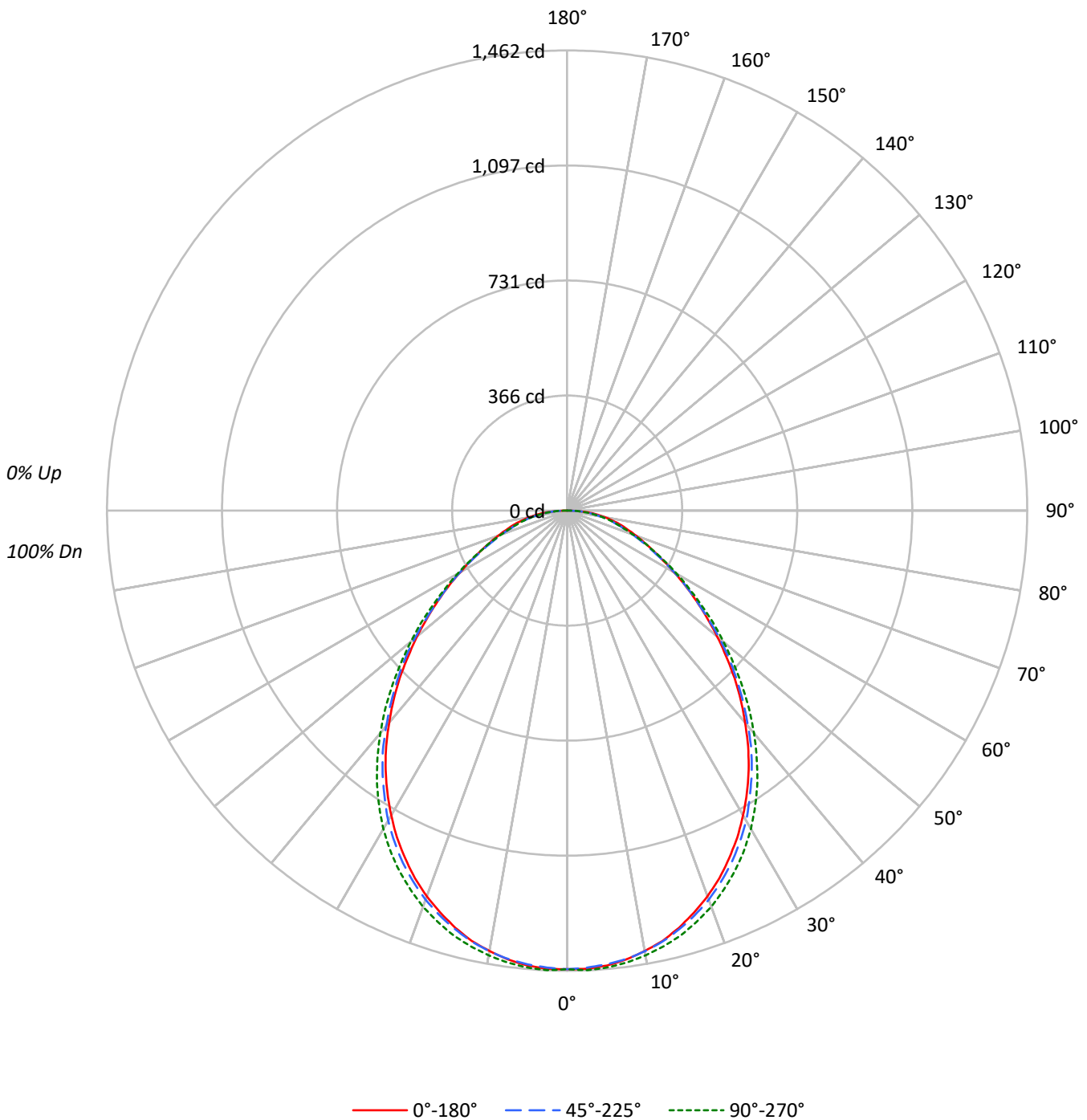
Input Watts (W): 25.11
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3921	3921	3921
5°	3919	3909	3936
10°	3883	3885	3920
15°	3823	3836	3892
20°	3734	3767	3835
25°	3617	3668	3748
30°	3475	3535	3628
35°	3304	3357	3461
40°	3090	3141	3244
45°	2860	2904	2989
50°	2605	2647	2714
55°	2352	2359	2428
60°	2110	2118	2168
65°	1922	1883	1927
70°	1830	1727	1757
75°	1841	1666	1674
80°	1909	1683	1671
85°	2093	1785	1689



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.7	4.1
10°-20°	388.9	11.7
20°-30°	569.2	17.1
30°-40°	639.9	19.3
40°-50°	590.1	17.8
50°-60°	454.8	13.7
60°-70°	300.1	9.0
70°-80°	174.7	5.3
80°-90°	63.6	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°	1095.7	33.0
0°-40°	1735.6	52.3
0°-60°	2780.6	83.8
0°-90°	3319.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3319.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1457	1457	1457	1457	1457	
5°	1451	1448	1447	1454	1457	138
15°	1372	1372	1377	1389	1397	386
25°	1218	1224	1235	1252	1262	560
35°	1006	1010	1022	1043	1054	627
45°	752	752	763	779	786	579
55°	501	501	503	511	518	450
65°	302	300	296	298	303	303
75°	177	169	160	157	161	187
85°	68	67	58	53	55	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1457.1	1457.1	1457.1	1457.1	1457.1
2.5°	1457.1	1454.0	1453.2	1458.6	1461.7
5°	1450.9	1447.8	1447.0	1454.0	1457.1
7.5°	1438.6	1436.3	1437.0	1444.7	1448.6
10°	1420.9	1420.1	1421.6	1430.1	1434.7
12.5°	1400.1	1399.3	1402.4	1411.6	1417.8
15°	1372.3	1372.3	1377.0	1389.3	1397.0
17.5°	1339.2	1341.5	1348.5	1360.8	1369.3
20°	1303.8	1306.1	1315.4	1329.2	1339.2
22.5°	1264.5	1267.6	1276.8	1293.8	1302.3
25°	1218.3	1224.5	1235.3	1252.2	1262.2
27.5°	1170.6	1177.5	1187.5	1208.3	1217.5
30°	1118.2	1122.8	1137.5	1156.7	1167.5
32.5°	1062.8	1067.4	1079.7	1102.8	1112.0
35°	1005.8	1010.4	1021.9	1042.7	1053.5
37.5°	944.2	948.0	961.9	978.0	989.6
40°	879.5	884.9	894.1	913.4	923.4
42.5°	816.3	818.6	828.6	847.9	855.6
45°	751.6	752.4	763.2	778.6	785.5
47.5°	684.6	686.2	699.3	708.5	715.4
50°	622.3	623.0	632.3	640.7	648.4
52.5°	559.9	559.9	564.5	573.7	583.7
55°	501.3	500.6	502.9	511.4	517.5
57.5°	445.9	445.1	448.2	453.6	458.2
60°	392.0	390.4	393.5	396.6	402.8
62.5°	344.2	345.8	341.9	346.6	351.2
65°	301.9	300.3	295.7	298.0	302.7
67.5°	265.7	263.4	255.7	257.2	262.6
70°	232.6	228.0	219.5	219.5	223.3
72.5°	202.5	197.9	187.1	187.9	189.4
75°	177.1	169.4	160.2	157.1	161.0
77.5°	149.4	143.2	134.8	132.5	134.0
80°	123.2	118.6	108.6	105.5	107.8
82.5°	97.8	94.0	82.4	80.1	80.9
85°	67.8	67.0	57.8	53.1	54.7
87.5°	36.2	37.0	30.0	27.0	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)