

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: P292045

Luminaire Tested: **22GR-LD5-32-F125-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292045
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-L93050-W2A1-U-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3010.0 lumens
Efficiency: N/A
Efficacy: 117.7 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

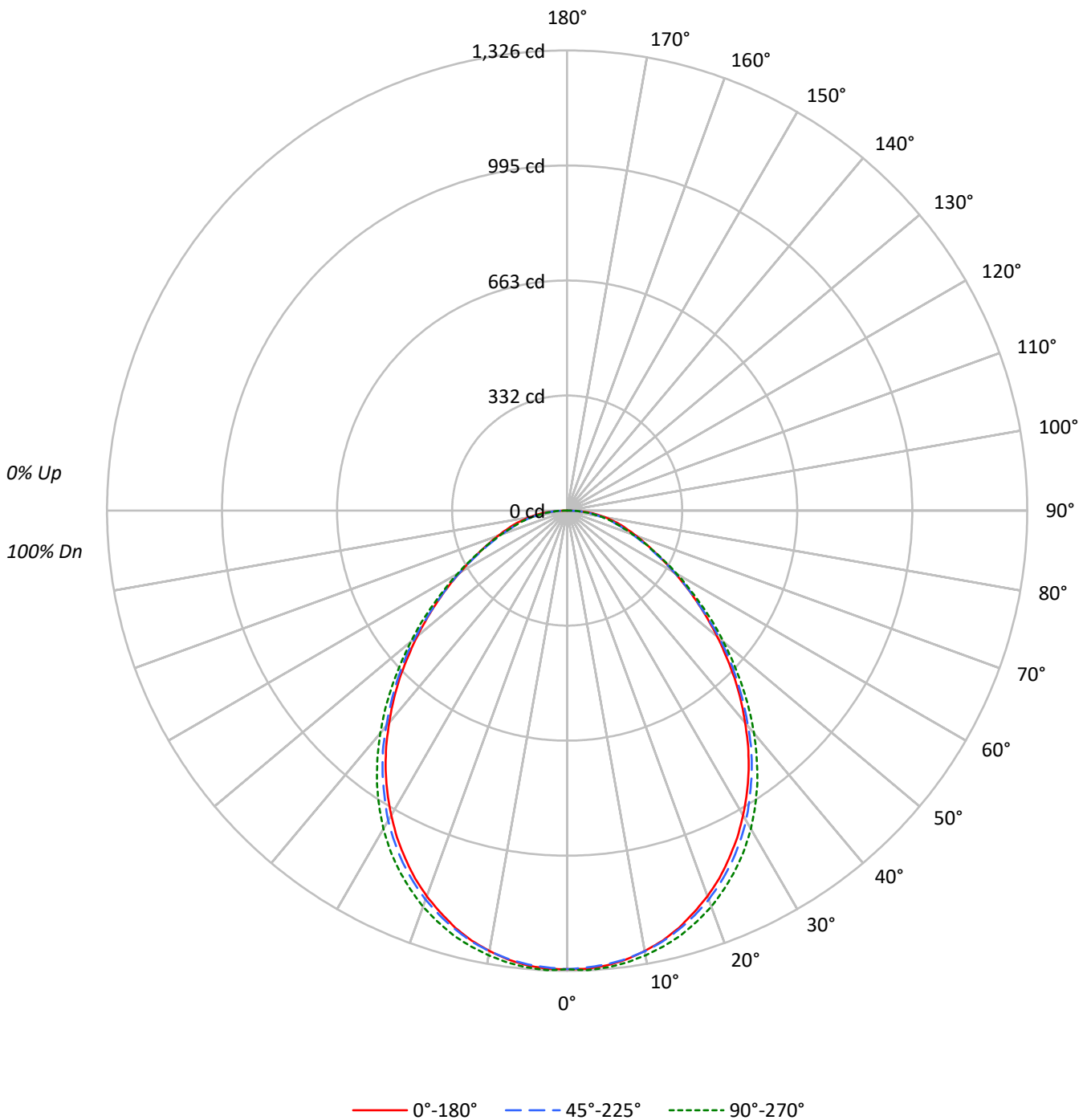
Input Watts (W): 25.575
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3556	3556	3556
5°	3554	3545	3569
10°	3521	3523	3555
15°	3467	3479	3529
20°	3386	3416	3478
25°	3281	3326	3399
30°	3151	3205	3290
35°	2996	3045	3139
40°	2802	2849	2942
45°	2594	2634	2711
50°	2362	2400	2462
55°	2133	2140	2202
60°	1913	1921	1966
65°	1743	1708	1748
70°	1659	1566	1593
75°	1670	1511	1518
80°	1731	1526	1516
85°	1899	1618	1531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.8	4.1
10°-20°	352.7	11.7
20°-30°	516.2	17.1
30°-40°	580.3	19.3
40°-50°	535.2	17.8
50°-60°	412.5	13.7
60°-70°	272.2	9.0
70°-80°	158.4	5.3
80°-90°	57.7	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°	993.7	33.0
0°-40°	1574.0	52.3
0°-60°	2521.7	83.8
0°-90°	3010.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3010.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1321	1321	1321	1321	1321	
5°	1316	1313	1312	1319	1321	125
15°	1245	1245	1249	1260	1267	350
25°	1105	1110	1120	1136	1145	508
35°	912	916	927	946	955	569
45°	682	682	692	706	712	525
55°	455	454	456	464	469	408
65°	274	272	268	270	274	275
75°	161	154	145	142	146	169
85°	62	61	52	48	50	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1321.4	1321.4	1321.4	1321.4	1321.4
2.5°	1321.4	1318.6	1317.9	1322.8	1325.6
5°	1315.8	1313.0	1312.3	1318.6	1321.4
7.5°	1304.6	1302.5	1303.2	1310.2	1313.7
10°	1288.6	1287.9	1289.3	1297.0	1301.1
12.5°	1269.7	1269.0	1271.8	1280.2	1285.8
15°	1244.6	1244.6	1248.8	1259.9	1266.9
17.5°	1214.5	1216.6	1222.9	1234.1	1241.8
20°	1182.4	1184.5	1192.9	1205.5	1214.5
22.5°	1146.8	1149.6	1158.0	1173.3	1181.0
25°	1104.9	1110.5	1120.3	1135.6	1144.7
27.5°	1061.6	1067.9	1077.0	1095.8	1104.2
30°	1014.1	1018.3	1031.6	1049.0	1058.8
32.5°	963.8	968.0	979.2	1000.1	1008.5
35°	912.1	916.3	926.8	945.7	955.4
37.5°	856.3	859.7	872.3	887.0	897.5
40°	797.6	802.5	810.9	828.3	837.4
42.5°	740.3	742.4	751.5	769.0	775.9
45°	681.7	682.4	692.1	706.1	712.4
47.5°	620.9	622.3	634.2	642.5	648.8
50°	564.3	565.0	573.4	581.1	588.1
52.5°	507.7	507.7	511.9	520.3	529.4
55°	454.7	454.0	456.1	463.7	469.3
57.5°	404.4	403.7	406.5	411.4	415.6
60°	355.5	354.1	356.9	359.7	365.3
62.5°	312.2	313.6	310.1	314.3	318.5
65°	273.8	272.4	268.2	270.3	274.5
67.5°	241.0	238.9	231.9	233.3	238.2
70°	210.9	206.7	199.0	199.0	202.5
72.5°	183.7	179.5	169.7	170.4	171.8
75°	160.6	153.7	145.3	142.5	146.0
77.5°	135.5	129.9	122.2	120.1	121.5
80°	111.7	107.6	98.5	95.7	97.8
82.5°	88.7	85.2	74.7	72.6	73.3
85°	61.5	60.8	52.4	48.2	49.6
87.5°	32.8	33.5	27.2	24.4	25.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)