

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: P292057

Luminaire Tested: **22GR-LD5-43-F125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292057
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-LD5-43-F125-UNV-L93050-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3387.0 lumens
Efficiency: N/A
Efficacy: 94.1 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

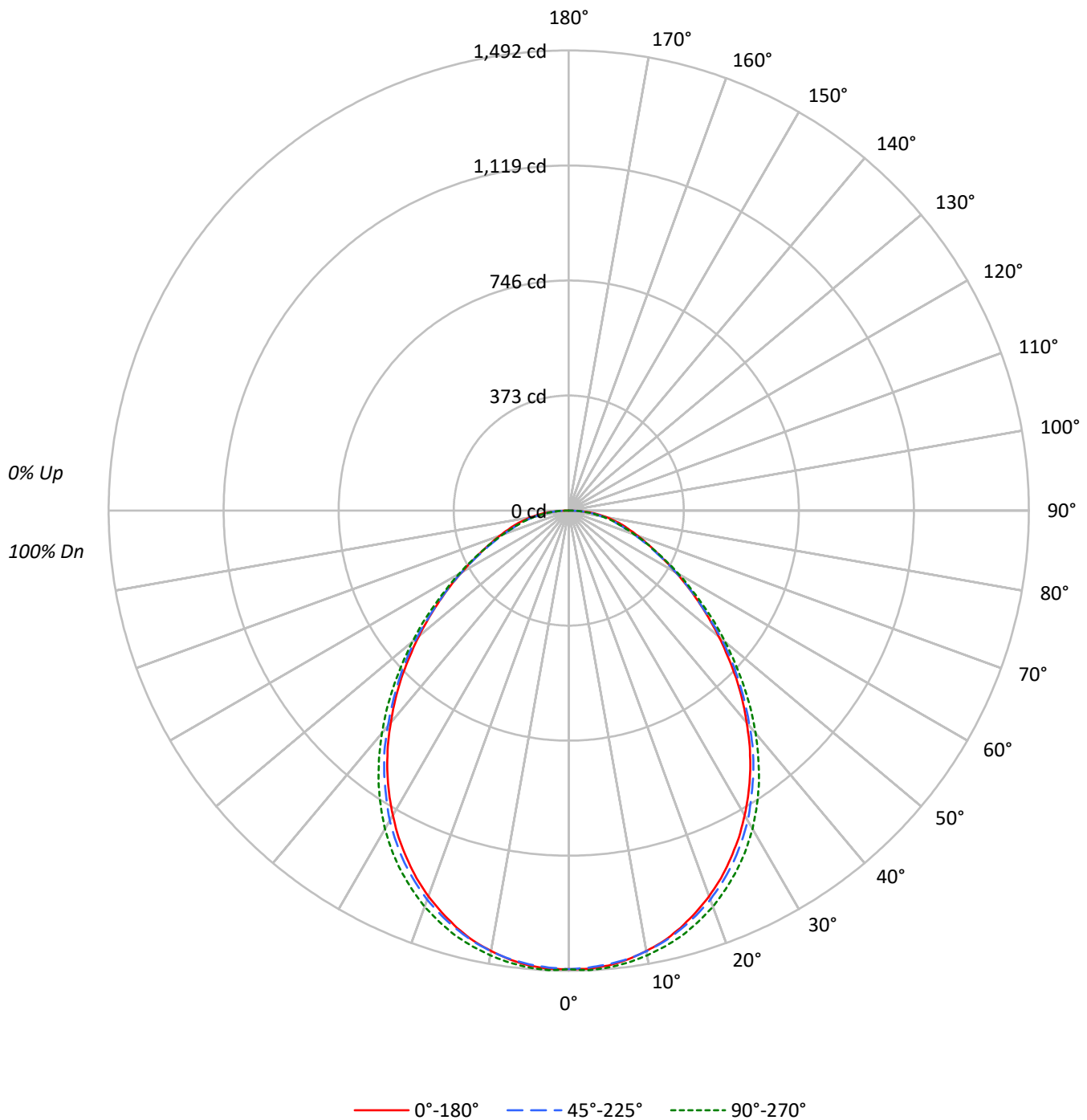
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4001	4001	4001
5°	3999	3989	4017
10°	3962	3964	4001
15°	3902	3915	3972
20°	3810	3844	3914
25°	3692	3743	3825
30°	3546	3607	3702
35°	3372	3426	3532
40°	3153	3205	3310
45°	2919	2964	3051
50°	2658	2701	2770
55°	2400	2408	2478
60°	2153	2161	2212
65°	1962	1922	1967
70°	1867	1762	1793
75°	1880	1700	1708
80°	1948	1717	1705
85°	2137	1819	1723



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.5	4.1
10°-20°	396.8	11.7
20°-30°	580.8	17.1
30°-40°	653.0	19.3
40°-50°	602.2	17.8
50°-60°	464.1	13.7
60°-70°	306.3	9.0
70°-80°	178.3	5.3
80°-90°	64.9	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°	1118.1	33.0
0°-40°	1771.1	52.3
0°-60°	2837.5	83.8
0°-90°	3387.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3387.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1487	1487	1487	1487	1487	
5°	1481	1478	1477	1484	1487	140
15°	1400	1400	1405	1418	1426	394
25°	1243	1250	1261	1278	1288	572
35°	1026	1031	1043	1064	1075	640
45°	767	768	779	794	802	591
55°	512	511	513	522	528	459
65°	308	306	302	304	309	309
75°	181	173	164	160	164	190
85°	69	68	59	54	56	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1486.9	1486.9	1486.9	1486.9	1486.9
2.5°	1486.9	1483.8	1483.0	1488.5	1491.6
5°	1480.6	1477.5	1476.7	1483.8	1486.9
7.5°	1468.0	1465.7	1466.5	1474.3	1478.3
10°	1450.0	1449.2	1450.8	1459.4	1464.1
12.5°	1428.8	1428.0	1431.1	1440.5	1446.8
15°	1400.5	1400.5	1405.2	1417.7	1425.6
17.5°	1366.7	1369.0	1376.1	1388.7	1397.3
20°	1330.5	1332.9	1342.3	1356.4	1366.7
22.5°	1290.4	1293.6	1303.0	1320.3	1328.9
25°	1243.3	1249.6	1260.6	1277.9	1288.1
27.5°	1194.6	1201.6	1211.8	1233.1	1242.5
30°	1141.1	1145.8	1160.8	1180.4	1191.4
32.5°	1084.5	1089.2	1101.8	1125.4	1134.8
35°	1026.4	1031.1	1042.9	1064.1	1075.1
37.5°	963.5	967.4	981.6	998.1	1009.9
40°	897.5	903.0	912.4	932.1	942.3
42.5°	833.0	835.4	845.6	865.3	873.1
45°	767.0	767.8	778.8	794.5	801.6
47.5°	698.7	700.2	713.6	723.0	730.1
50°	635.0	635.8	645.2	653.9	661.7
52.5°	571.3	571.3	576.1	585.5	595.7
55°	511.6	510.8	513.2	521.8	528.1
57.5°	455.0	454.2	457.4	462.9	467.6
60°	400.0	398.4	401.6	404.7	411.0
62.5°	351.3	352.9	348.9	353.7	358.4
65°	308.1	306.5	301.8	304.1	308.9
67.5°	271.1	268.8	260.9	262.5	268.0
70°	237.3	232.6	224.0	224.0	227.9
72.5°	206.7	202.0	191.0	191.8	193.3
75°	180.8	172.9	163.5	160.3	164.3
77.5°	152.5	146.2	137.5	135.2	136.7
80°	125.7	121.0	110.8	107.7	110.0
82.5°	99.8	95.9	84.1	81.7	82.5
85°	69.2	68.4	58.9	54.2	55.8
87.5°	36.9	37.7	30.6	27.5	29.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)