

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: P292060

Luminaire Tested: **22GR-LD5-43-F125-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292060
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-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: 4067.0 lumens
Efficiency: N/A
Efficacy: 111.0 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

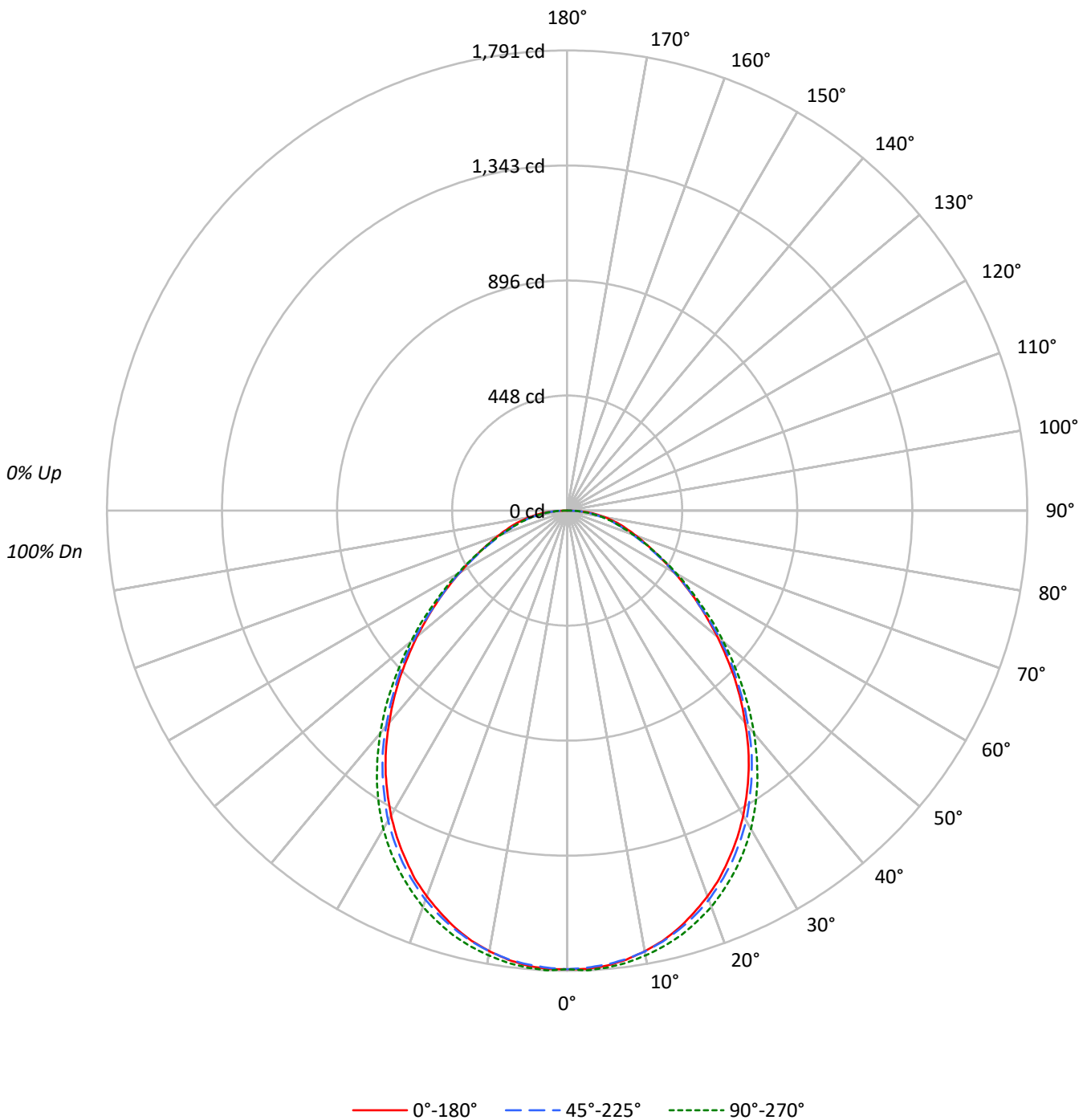
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4804	4804	4804
5°	4803	4790	4823
10°	4758	4760	4804
15°	4685	4701	4769
20°	4575	4616	4699
25°	4433	4494	4592
30°	4258	4331	4445
35°	4049	4114	4241
40°	3786	3849	3975
45°	3505	3559	3663
50°	3192	3244	3327
55°	2882	2891	2975
60°	2585	2595	2656
65°	2355	2308	2362
70°	2242	2116	2153
75°	2256	2041	2050
80°	2340	2063	2047
85°	2563	2186	2069



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.7	4.1
10°-20°	476.5	11.7
20°-30°	697.4	17.1
30°-40°	784.1	19.3
40°-50°	723.1	17.8
50°-60°	557.3	13.7
60°-70°	367.8	9.0
70°-80°	214.0	5.3
80°-90°	78.0	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°	1342.6	33.0
0°-40°	2126.7	52.3
0°-60°	3407.2	83.8
0°-90°	4067.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4067.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1785	1785	1785	1785	1785	
5°	1778	1774	1773	1782	1785	169
15°	1682	1682	1687	1702	1712	473
25°	1493	1500	1514	1534	1547	687
35°	1232	1238	1252	1278	1291	768
45°	921	922	935	954	962	709
55°	614	613	616	627	634	551
65°	370	368	362	365	371	371
75°	217	208	196	192	197	229
85°	83	82	71	65	67	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1785.4	1785.4	1785.4	1785.4	1785.4
2.5°	1785.4	1781.7	1780.7	1787.3	1791.1
5°	1777.9	1774.1	1773.2	1781.7	1785.4
7.5°	1762.8	1760.0	1760.9	1770.3	1775.0
10°	1741.1	1740.1	1742.0	1752.4	1758.1
12.5°	1715.6	1714.7	1718.4	1729.8	1737.3
15°	1681.6	1681.6	1687.3	1702.4	1711.8
17.5°	1641.0	1643.9	1652.4	1667.5	1677.9
20°	1597.6	1600.5	1611.8	1628.8	1641.0
22.5°	1549.5	1553.3	1564.6	1585.4	1595.8
25°	1492.9	1500.4	1513.7	1534.4	1546.7
27.5°	1434.4	1442.9	1455.1	1480.6	1491.9
30°	1370.2	1375.9	1393.8	1417.4	1430.6
32.5°	1302.3	1307.9	1323.0	1351.3	1362.7
35°	1232.4	1238.1	1252.3	1277.7	1290.9
37.5°	1156.9	1161.7	1178.6	1198.5	1212.6
40°	1077.7	1084.3	1095.6	1119.2	1131.5
42.5°	1000.3	1003.1	1015.4	1039.0	1048.4
45°	921.0	922.0	935.2	954.1	962.5
47.5°	838.9	840.8	856.9	868.2	876.7
50°	762.5	763.4	774.8	785.1	794.6
52.5°	686.1	686.1	691.7	703.0	715.3
55°	614.3	613.4	616.2	626.6	634.1
57.5°	546.4	545.4	549.2	555.8	561.5
60°	480.3	478.4	482.2	486.0	493.5
62.5°	421.8	423.7	419.0	424.7	430.3
65°	369.9	368.0	362.4	365.2	370.9
67.5°	325.6	322.7	313.3	315.2	321.8
70°	285.0	279.3	268.9	268.9	273.7
72.5°	248.2	242.5	229.3	230.3	232.1
75°	217.0	207.6	196.3	192.5	197.2
77.5°	183.1	175.5	165.1	162.3	164.2
80°	151.0	145.3	133.1	129.3	132.1
82.5°	119.8	115.1	101.0	98.1	99.1
85°	83.0	82.1	70.8	65.1	67.0
87.5°	44.4	45.3	36.8	33.0	34.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)