

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: P292117

Luminaire Tested: **22GR-LD5-43-F125-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292117
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-L92765-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: 3548.0 lumens
Efficiency: N/A
Efficacy: 102.0 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

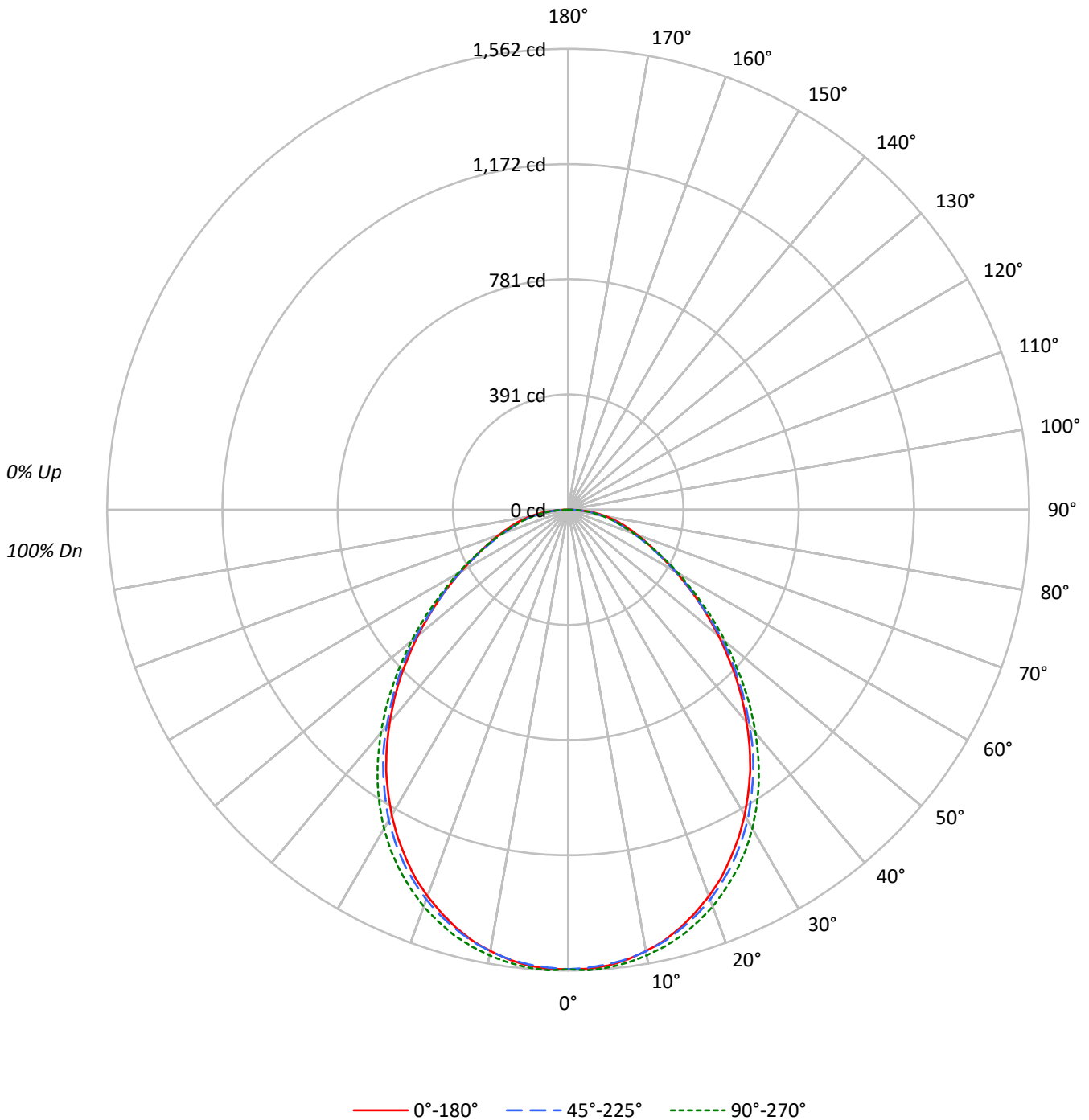
Input Watts (W): 34.782
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4191	4191	4191
5°	4190	4179	4207
10°	4150	4153	4191
15°	4087	4101	4160
20°	3991	4027	4100
25°	3867	3921	4006
30°	3714	3778	3878
35°	3532	3589	3700
40°	3303	3358	3468
45°	3058	3105	3196
50°	2785	2830	2902
55°	2514	2522	2595
60°	2255	2264	2317
65°	2055	2013	2060
70°	1956	1846	1878
75°	1968	1780	1789
80°	2041	1799	1787
85°	2235	1905	1806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.2	4.1
10°-20°	415.7	11.7
20°-30°	608.4	17.1
30°-40°	684.1	19.3
40°-50°	630.8	17.8
50°-60°	486.2	13.7
60°-70°	320.8	9.0
70°-80°	186.7	5.3
80°-90°	68.0	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°	1171.3	33.0
0°-40°	1855.3	52.3
0°-60°	2972.4	83.8
0°-90°	3548.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3548.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1558	1558	1558	1558	1558	
5°	1551	1548	1547	1554	1558	147
15°	1467	1467	1472	1485	1493	413
25°	1302	1309	1320	1339	1349	599
35°	1075	1080	1092	1115	1126	670
45°	804	804	816	832	840	619
55°	536	535	538	547	553	481
65°	323	321	316	319	324	324
75°	189	181	171	168	172	199
85°	72	72	62	57	58	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1557.6	1557.6	1557.6	1557.6	1557.6
2.5°	1557.6	1554.3	1553.5	1559.2	1562.5
5°	1551.0	1547.7	1546.9	1554.3	1557.6
7.5°	1537.8	1535.4	1536.2	1544.4	1548.5
10°	1518.9	1518.1	1519.7	1528.8	1533.7
12.5°	1496.7	1495.8	1499.1	1509.0	1515.6
15°	1467.0	1467.0	1472.0	1485.1	1493.4
17.5°	1431.6	1434.1	1441.5	1454.7	1463.7
20°	1393.8	1396.2	1406.1	1420.9	1431.6
22.5°	1351.8	1355.1	1364.9	1383.1	1392.1
25°	1302.4	1309.0	1320.5	1338.6	1349.3
27.5°	1251.3	1258.7	1269.4	1291.7	1301.6
30°	1195.4	1200.3	1215.9	1236.5	1248.0
32.5°	1136.1	1141.0	1154.2	1178.9	1188.8
35°	1075.2	1080.1	1092.5	1114.7	1126.2
37.5°	1009.3	1013.4	1028.2	1045.5	1057.9
40°	940.2	945.9	955.8	976.4	987.1
42.5°	872.6	875.1	885.8	906.4	914.6
45°	803.5	804.3	815.8	832.3	839.7
47.5°	731.9	733.5	747.5	757.4	764.8
50°	665.2	666.0	675.9	684.9	693.2
52.5°	598.5	598.5	603.4	613.3	624.0
55°	535.9	535.1	537.6	546.6	553.2
57.5°	476.7	475.8	479.1	484.9	489.8
60°	419.0	417.4	420.7	424.0	430.6
62.5°	368.0	369.6	365.5	370.5	375.4
65°	322.7	321.1	316.1	318.6	323.5
67.5°	284.0	281.6	273.3	275.0	280.7
70°	248.6	243.7	234.6	234.6	238.7
72.5°	216.5	211.6	200.0	200.9	202.5
75°	189.3	181.1	171.2	167.9	172.1
77.5°	159.7	153.1	144.1	141.6	143.2
80°	131.7	126.8	116.1	112.8	115.3
82.5°	104.6	100.4	88.1	85.6	86.4
85°	72.4	71.6	61.7	56.8	58.5
87.5°	38.7	39.5	32.1	28.8	30.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)