

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: P292019

Luminaire Tested: **22GR-LD5-43-F125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292019
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-L82765-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4111.0 lumens
Efficiency: N/A
Efficacy: 117.9 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

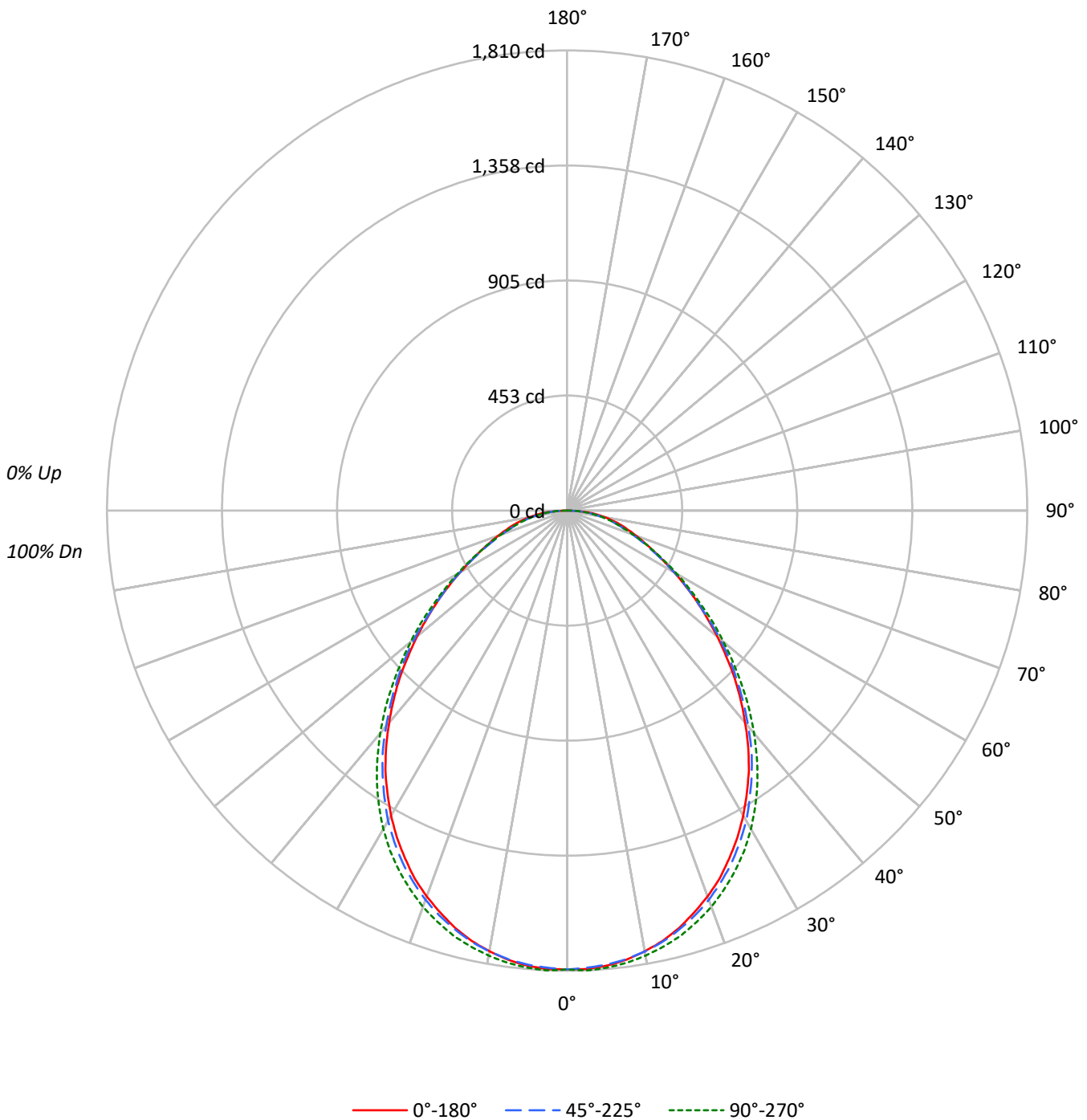
Input Watts (W): 34.875
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4856	4856	4856
5°	4854	4841	4875
10°	4809	4812	4856
15°	4735	4751	4820
20°	4625	4666	4750
25°	4480	4543	4642
30°	4304	4378	4493
35°	4093	4158	4287
40°	3827	3890	4018
45°	3543	3597	3703
50°	3226	3278	3363
55°	2913	2922	3007
60°	2613	2623	2685
65°	2381	2332	2387
70°	2267	2139	2176
75°	2281	2063	2073
80°	2365	2084	2069
85°	2590	2208	2090



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.5	4.1
10°-20°	481.7	11.7
20°-30°	705.0	17.1
30°-40°	792.6	19.3
40°-50°	731.0	17.8
50°-60°	563.4	13.7
60°-70°	371.7	9.0
70°-80°	216.4	5.3
80°-90°	78.8	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°	1357.1	33.0
0°-40°	2149.7	52.3
0°-60°	3444.1	83.8
0°-90°	4111.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4111.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1805	1805	1805	1805	1805	
5°	1797	1793	1792	1801	1805	170
15°	1700	1700	1706	1721	1730	478
25°	1509	1517	1530	1551	1563	694
35°	1246	1252	1266	1292	1305	777
45°	931	932	945	964	973	717
55°	621	620	623	633	641	557
65°	374	372	366	369	375	375
75°	219	210	198	195	199	231
85°	84	83	72	66	68	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1804.7	1804.7	1804.7	1804.7	1804.7
2.5°	1804.7	1800.9	1800.0	1806.7	1810.5
5°	1797.1	1793.3	1792.3	1800.9	1804.7
7.5°	1781.9	1779.0	1779.9	1789.5	1794.3
10°	1759.9	1759.0	1760.9	1771.4	1777.1
12.5°	1734.2	1733.2	1737.0	1748.5	1756.1
15°	1699.8	1699.8	1705.5	1720.8	1730.3
17.5°	1658.8	1661.7	1670.2	1685.5	1696.0
20°	1614.9	1617.8	1629.2	1646.4	1658.8
22.5°	1566.3	1570.1	1581.5	1602.5	1613.0
25°	1509.0	1516.7	1530.0	1551.0	1563.4
27.5°	1449.9	1458.5	1470.9	1496.6	1508.1
30°	1385.0	1390.8	1408.9	1432.7	1446.1
32.5°	1316.4	1322.1	1337.3	1366.0	1377.4
35°	1245.8	1251.5	1265.8	1291.6	1304.9
37.5°	1169.5	1174.2	1191.4	1211.4	1225.7
40°	1089.3	1096.0	1107.5	1131.3	1143.7
42.5°	1011.1	1014.0	1026.4	1050.2	1059.8
45°	931.0	931.9	945.3	964.4	973.0
47.5°	848.0	849.9	866.1	877.6	886.2
50°	770.7	771.7	783.1	793.6	803.2
52.5°	693.5	693.5	699.2	710.6	723.0
55°	621.0	620.0	622.9	633.4	641.0
57.5°	552.3	551.3	555.2	561.8	567.6
60°	485.5	483.6	487.4	491.2	498.9
62.5°	426.4	428.3	423.5	429.2	435.0
65°	373.9	372.0	366.3	369.2	374.9
67.5°	329.1	326.2	316.7	318.6	325.3
70°	288.1	282.3	271.9	271.9	276.6
72.5°	250.9	245.1	231.8	232.7	234.7
75°	219.4	209.9	198.4	194.6	199.4
77.5°	185.1	177.4	166.9	164.1	166.0
80°	152.6	146.9	134.5	130.7	133.5
82.5°	121.1	116.4	102.1	99.2	100.2
85°	83.9	83.0	71.5	65.8	67.7
87.5°	44.8	45.8	37.2	33.4	35.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)