

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: P291959

Luminaire Tested: **22GR-LD5-43-F125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291959
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-L83050-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: 4115.0 lumens
Efficiency: N/A
Efficacy: 117.4 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

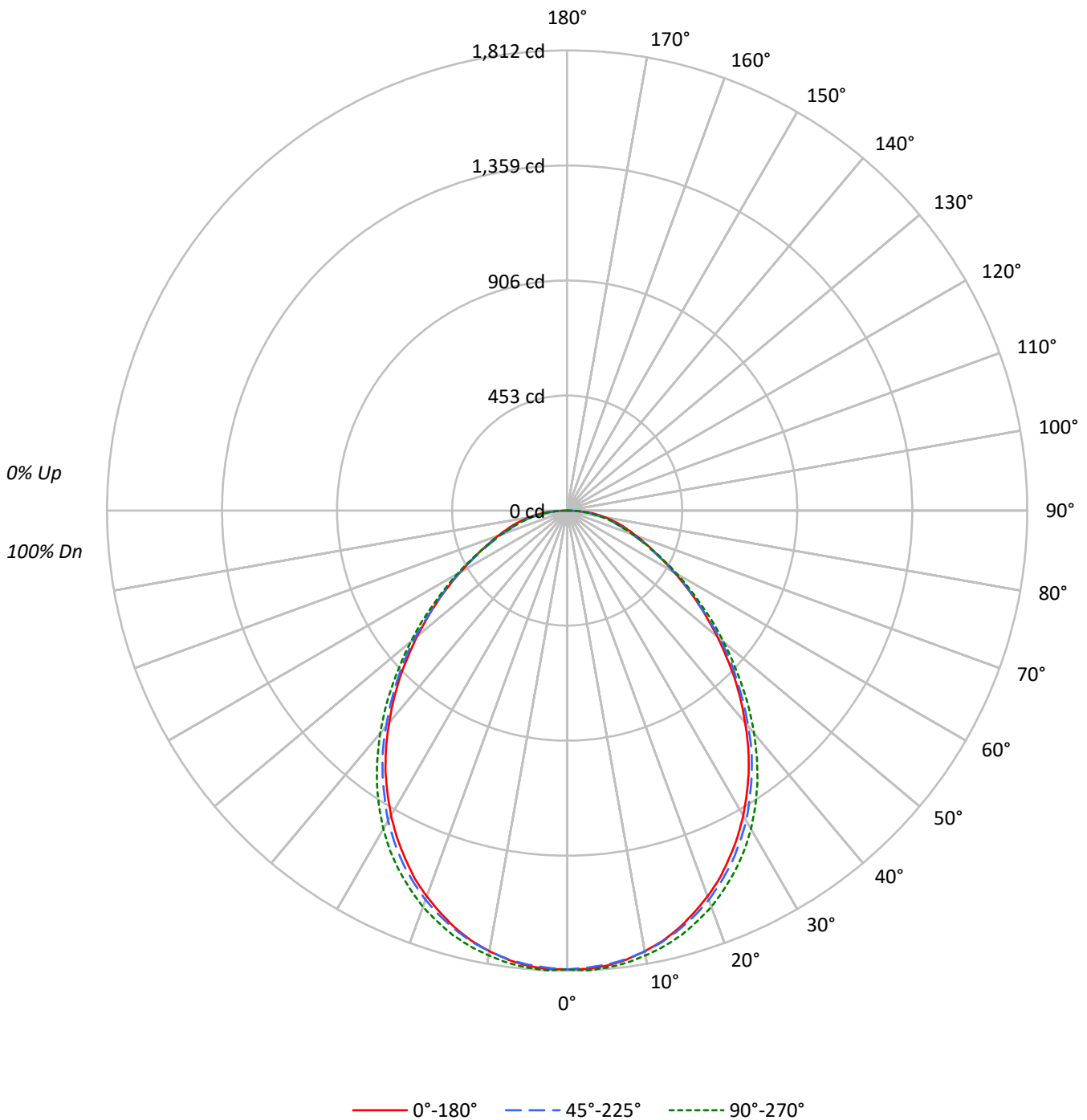
Input Watts (W): 35.061
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4861	4861	4861
5°	4859	4846	4880
10°	4814	4816	4861
15°	4740	4756	4825
20°	4629	4670	4755
25°	4485	4547	4646
30°	4308	4382	4498
35°	4096	4162	4291
40°	3830	3894	4021
45°	3546	3601	3706
50°	3230	3282	3366
55°	2916	2925	3010
60°	2616	2626	2688
65°	2383	2334	2389
70°	2269	2141	2179
75°	2283	2065	2075
80°	2368	2086	2072
85°	2594	2211	2093



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.7	4.1
10°-20°	482.1	11.7
20°-30°	705.7	17.1
30°-40°	793.4	19.3
40°-50°	731.7	17.8
50°-60°	563.9	13.7
60°-70°	372.1	9.0
70°-80°	216.6	5.3
80°-90°	78.9	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°	1358.4	33.0
0°-40°	2151.8	52.3
0°-60°	3447.4	83.8
0°-90°	4115.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4115.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1806	1806	1806	1806	1806	
5°	1799	1795	1794	1803	1806	171
15°	1702	1702	1707	1722	1732	479
25°	1510	1518	1532	1552	1565	695
35°	1247	1253	1267	1293	1306	777
45°	932	933	946	965	974	718
55°	622	621	624	634	642	558
65°	374	372	367	370	375	375
75°	220	210	199	195	200	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°	1806.5	1806.5	1806.5	1806.5	1806.5
2.5°	1806.5	1802.7	1801.7	1808.4	1812.2
5°	1798.9	1795.0	1794.1	1802.7	1806.5
7.5°	1783.6	1780.7	1781.7	1791.2	1796.0
10°	1761.6	1760.7	1762.6	1773.1	1778.8
12.5°	1735.8	1734.9	1738.7	1750.2	1757.8
15°	1701.5	1701.5	1707.2	1722.5	1732.0
17.5°	1660.4	1663.3	1671.9	1687.2	1697.7
20°	1616.5	1619.4	1630.8	1648.0	1660.4
22.5°	1567.8	1571.6	1583.1	1604.1	1614.6
25°	1510.5	1518.1	1531.5	1552.5	1564.9
27.5°	1451.3	1459.9	1472.3	1498.1	1509.6
30°	1386.4	1392.1	1410.3	1434.1	1447.5
32.5°	1317.6	1323.4	1338.6	1367.3	1378.7
35°	1247.0	1252.7	1267.0	1292.8	1306.2
37.5°	1170.6	1175.4	1192.6	1212.6	1226.9
40°	1090.4	1097.1	1108.5	1132.4	1144.8
42.5°	1012.1	1015.0	1027.4	1051.2	1060.8
45°	931.9	932.9	946.2	965.3	973.9
47.5°	848.8	850.7	867.0	878.4	887.0
50°	771.5	772.4	783.9	794.4	804.0
52.5°	694.1	694.1	699.9	711.3	723.7
55°	621.6	620.6	623.5	634.0	641.6
57.5°	552.8	551.9	555.7	562.4	568.1
60°	486.0	484.1	487.9	491.7	499.4
62.5°	426.8	428.7	423.9	429.7	435.4
65°	374.3	372.4	366.6	369.5	375.2
67.5°	329.4	326.5	317.0	318.9	325.6
70°	288.4	282.6	272.1	272.1	276.9
72.5°	251.1	245.4	232.0	233.0	234.9
75°	219.6	210.1	198.6	194.8	199.6
77.5°	185.2	177.6	167.1	164.2	166.1
80°	152.8	147.0	134.6	130.8	133.7
82.5°	121.3	116.5	102.2	99.3	100.3
85°	84.0	83.1	71.6	65.9	67.8
87.5°	44.9	45.8	37.2	33.4	35.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)