

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: P292024

Luminaire Tested: **22GR-LD5-43-F125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292024
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-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4527.0 lumens
Efficiency: N/A
Efficacy: 125.1 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

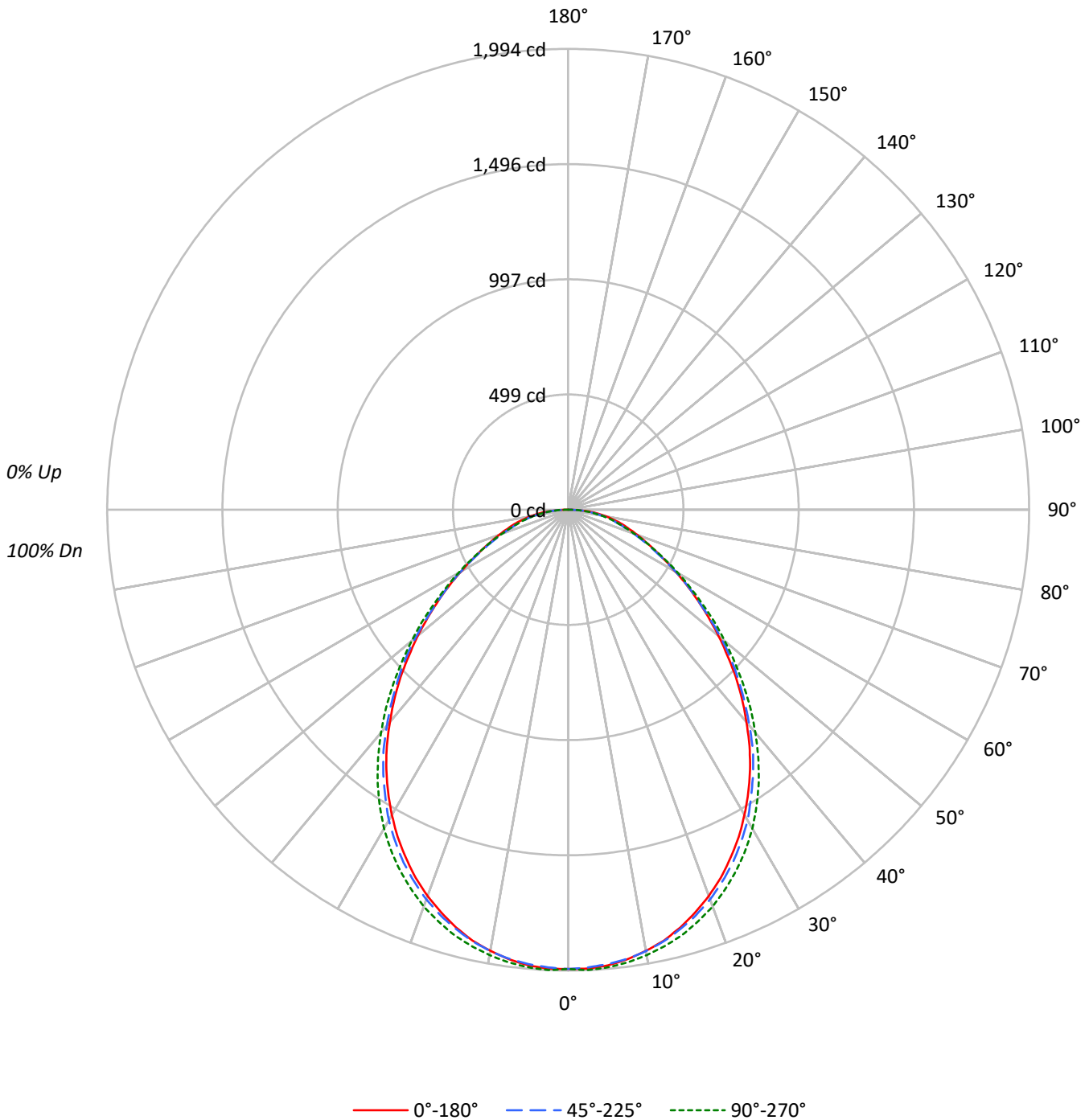
Input Watts (W): 36.177
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5348	5348	5348
5°	5346	5331	5368
10°	5296	5299	5347
15°	5215	5232	5308
20°	5092	5138	5231
25°	4934	5003	5112
30°	4739	4821	4948
35°	4506	4579	4721
40°	4214	4284	4424
45°	3902	3962	4077
50°	3553	3610	3702
55°	3208	3218	3312
60°	2878	2889	2957
65°	2622	2569	2628
70°	2496	2356	2397
75°	2512	2272	2282
80°	2605	2295	2280
85°	2853	2433	2303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.8	4.1
10°-20°	530.4	11.7
20°-30°	776.3	17.1
30°-40°	872.8	19.3
40°-50°	804.9	17.8
50°-60°	620.4	13.7
60°-70°	409.4	9.0
70°-80°	238.3	5.3
80°-90°	86.8	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°	1494.5	33.0
0°-40°	2367.3	52.3
0°-60°	3792.6	83.8
0°-90°	4527.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4527.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1987	1987	1987	1987	1987	
5°	1979	1975	1974	1983	1987	188
15°	1872	1872	1878	1895	1905	527
25°	1662	1670	1685	1708	1722	764
35°	1372	1378	1394	1422	1437	855
45°	1025	1026	1041	1062	1071	789
55°	684	683	686	698	706	614
65°	412	410	403	406	413	413
75°	242	231	218	214	220	254
85°	92	91	79	72	75	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1987.4	1987.4	1987.4	1987.4	1987.4
2.5°	1987.4	1983.2	1982.1	1989.5	1993.7
5°	1979.0	1974.8	1973.7	1983.2	1987.4
7.5°	1962.2	1959.0	1960.1	1970.6	1975.8
10°	1938.0	1937.0	1939.1	1950.6	1956.9
12.5°	1909.6	1908.6	1912.8	1925.4	1933.8
15°	1871.8	1871.8	1878.1	1894.9	1905.4
17.5°	1826.7	1829.8	1839.3	1856.1	1867.6
20°	1778.3	1781.5	1794.1	1813.0	1826.7
22.5°	1724.8	1729.0	1741.6	1764.7	1776.2
25°	1661.7	1670.1	1684.9	1708.0	1721.6
27.5°	1596.6	1606.1	1619.7	1648.1	1660.7
30°	1525.2	1531.5	1551.5	1577.7	1592.4
32.5°	1449.6	1455.9	1472.7	1504.2	1516.8
35°	1371.8	1378.1	1393.9	1422.3	1437.0
37.5°	1287.8	1293.1	1312.0	1334.0	1349.8
40°	1199.6	1206.9	1219.5	1245.8	1259.4
42.5°	1113.4	1116.6	1130.2	1156.5	1167.0
45°	1025.2	1026.2	1041.0	1062.0	1071.4
47.5°	933.8	935.9	953.8	966.4	975.8
50°	848.7	849.8	862.4	873.9	884.4
52.5°	763.6	763.6	769.9	782.6	796.2
55°	683.8	682.8	685.9	697.5	705.9
57.5°	608.2	607.1	611.3	618.7	625.0
60°	534.7	532.6	536.8	541.0	549.4
62.5°	469.5	471.6	466.4	472.7	479.0
65°	411.8	409.7	403.4	406.5	412.8
67.5°	362.4	359.2	348.7	350.8	358.2
70°	317.2	310.9	299.4	299.4	304.6
72.5°	276.3	270.0	255.2	256.3	258.4
75°	241.6	231.1	218.5	214.3	219.5
77.5°	203.8	195.4	183.8	180.7	182.8
80°	168.1	161.8	148.1	143.9	147.1
82.5°	133.4	128.1	112.4	109.2	110.3
85°	92.4	91.4	78.8	72.5	74.6
87.5°	49.4	50.4	41.0	36.8	38.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)