

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: P292025

Luminaire Tested: **22GR-LD5-43-F125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292025
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-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4539.0 lumens
Efficiency: N/A
Efficacy: 125.5 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

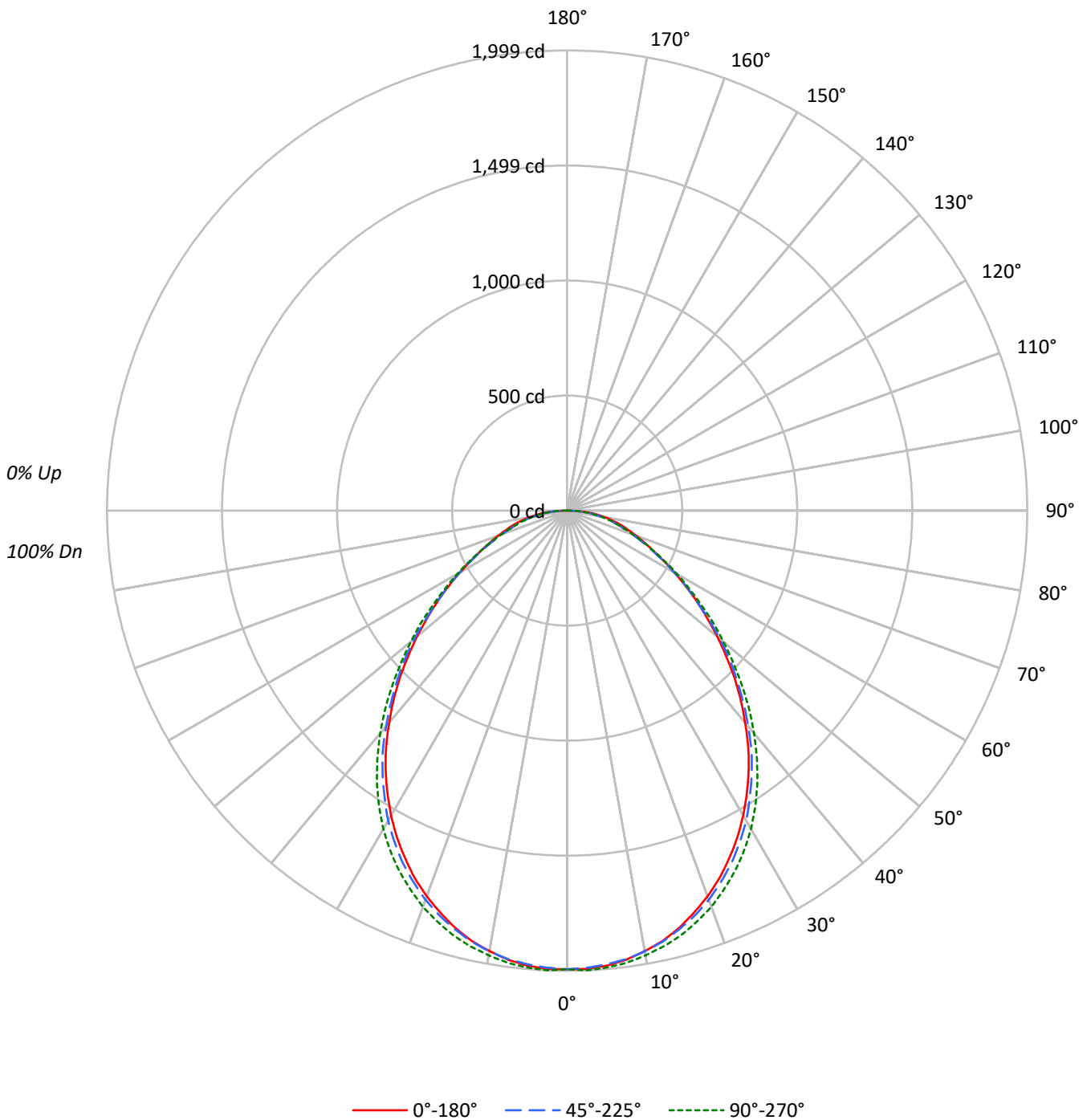
Input Watts (W): 36.177
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	105	101	97	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67		75	70	66		73	68	65	62
4	85	74	65	59	83	72	65	59	70	63	58		68	62	57		65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51		61	55	50		59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45		56	49	45		54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40		51	45	40		50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36		47	41	36		46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33		44	37	33		43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30		40	34	30		40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5362	5362	5362
5°	5360	5346	5383
10°	5310	5313	5361
15°	5229	5246	5322
20°	5106	5151	5245
25°	4947	5016	5125
30°	4752	4834	4961
35°	4519	4591	4733
40°	4225	4295	4436
45°	3912	3972	4088
50°	3563	3620	3713
55°	3217	3226	3320
60°	2885	2897	2964
65°	2629	2575	2635
70°	2503	2362	2403
75°	2518	2278	2288
80°	2611	2301	2284
85°	2862	2439	2309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.3	4.1
10°-20°	531.8	11.7
20°-30°	778.4	17.1
30°-40°	875.1	19.3
40°-50°	807.1	17.8
50°-60°	622.0	13.7
60°-70°	410.5	9.0
70°-80°	238.9	5.3
80°-90°	87.0	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°	1498.4	33.0
0°-40°	2373.6	52.3
0°-60°	3802.6	83.8
0°-90°	4539.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4539.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1993	1993	1993	1993	1993	
5°	1984	1980	1979	1988	1993	188
15°	1877	1877	1883	1900	1910	528
25°	1666	1675	1689	1712	1726	766
35°	1376	1382	1398	1426	1441	858
45°	1028	1029	1044	1065	1074	791
55°	686	685	688	699	708	615
65°	413	411	404	408	414	414
75°	242	232	219	215	220	255
85°	93	92	79	73	75	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1992.6	1992.6	1992.6	1992.6	1992.6
2.5°	1992.6	1988.4	1987.4	1994.7	1999.0
5°	1984.2	1980.0	1978.9	1988.4	1992.6
7.5°	1967.4	1964.2	1965.3	1975.8	1981.1
10°	1943.1	1942.1	1944.2	1955.8	1962.1
12.5°	1914.7	1913.7	1917.9	1930.5	1938.9
15°	1876.8	1876.8	1883.1	1900.0	1910.5
17.5°	1831.5	1834.7	1844.1	1861.0	1872.6
20°	1783.1	1786.2	1798.9	1817.8	1831.5
22.5°	1729.3	1733.6	1746.2	1769.4	1780.9
25°	1666.2	1674.6	1689.3	1712.5	1726.2
27.5°	1600.9	1610.3	1624.0	1652.5	1665.1
30°	1529.2	1535.6	1555.6	1581.9	1596.6
32.5°	1453.4	1459.7	1476.6	1508.2	1520.8
35°	1375.5	1381.8	1397.6	1426.0	1440.8
37.5°	1291.2	1296.5	1315.4	1337.6	1353.4
40°	1202.7	1210.1	1222.8	1249.1	1262.8
42.5°	1116.4	1119.5	1133.2	1159.6	1170.1
45°	1027.9	1029.0	1043.7	1064.8	1074.3
47.5°	936.3	938.4	956.3	968.9	978.4
50°	851.0	852.0	864.7	876.3	886.8
52.5°	765.7	765.7	772.0	784.6	798.3
55°	685.6	684.6	687.7	699.3	707.7
57.5°	609.8	608.7	613.0	620.3	626.6
60°	536.1	534.0	538.2	542.4	550.8
62.5°	470.8	472.9	467.6	473.9	480.3
65°	412.9	410.7	404.4	407.6	413.9
67.5°	363.4	360.2	349.7	351.8	359.1
70°	318.1	311.7	300.2	300.2	305.4
72.5°	277.0	270.7	255.9	257.0	259.1
75°	242.2	231.7	219.1	214.9	220.1
77.5°	204.3	195.9	184.3	181.1	183.3
80°	168.5	162.2	148.5	144.3	147.4
82.5°	133.8	128.5	112.7	109.5	110.6
85°	92.7	91.6	79.0	72.7	74.8
87.5°	49.5	50.6	41.1	36.9	39.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)