

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: P292064

Luminaire Tested: **22GR-LD5-20-F125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292064
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-LD5-20-F125-UNV-L92765-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1779.0 lumens
Efficiency: N/A
Efficacy: 115.2 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

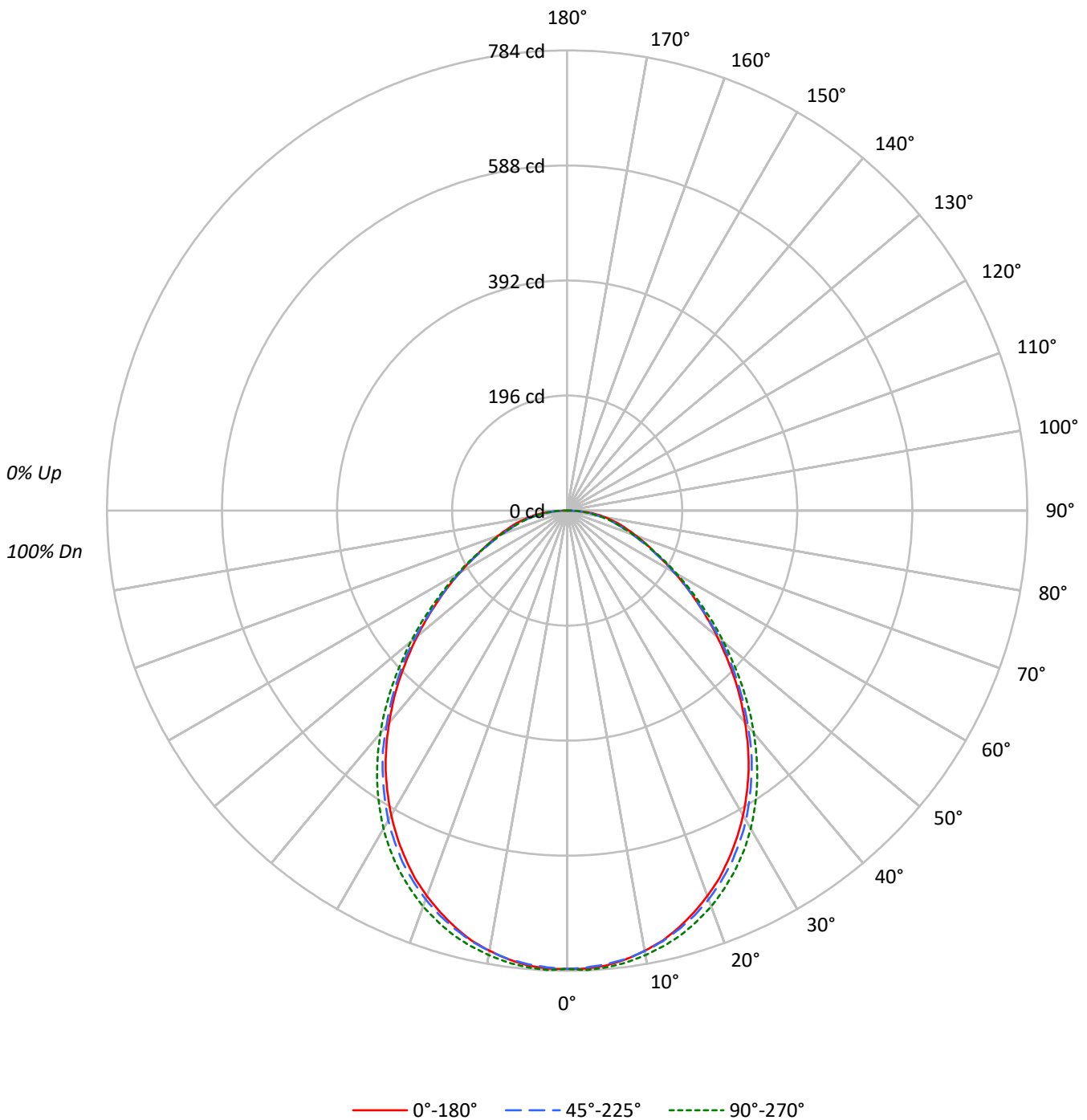
Input Watts (W): 15.438
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2102	2102	2102
5°	2101	2095	2110
10°	2081	2082	2101
15°	2049	2056	2086
20°	2001	2019	2056
25°	1939	1966	2009
30°	1863	1895	1945
35°	1771	1800	1855
40°	1656	1683	1738
45°	1533	1557	1602
50°	1396	1419	1455
55°	1261	1264	1301
60°	1131	1135	1162
65°	1030	1009	1033
70°	981	925	942
75°	987	893	897
80°	1023	902	896
85°	1121	957	905



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	4.1
10°-20°	208.4	11.7
20°-30°	305.1	17.1
30°-40°	343.0	19.3
40°-50°	316.3	17.8
50°-60°	243.8	13.7
60°-70°	160.9	9.0
70°-80°	93.6	5.3
80°-90°	34.1	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°	587.3	33.0
0°-40°	930.3	52.3
0°-60°	1490.4	83.8
0°-90°	1779.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1779.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	781	781	781	781	781	
5°	778	776	776	779	781	74
15°	736	736	738	745	749	207
25°	653	656	662	671	677	300
35°	539	542	548	559	565	336
45°	403	403	409	417	421	310
55°	269	268	270	274	277	241
65°	162	161	158	160	162	162
75°	95	91	86	84	86	100
85°	36	36	31	28	29	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	781.0	781.0	781.0	781.0	781.0
2.5°	781.0	779.3	778.9	781.8	783.5
5°	777.7	776.0	775.6	779.3	781.0
7.5°	771.1	769.8	770.3	774.4	776.4
10°	761.6	761.2	762.0	766.5	769.0
12.5°	750.4	750.0	751.7	756.6	759.9
15°	735.6	735.6	738.1	744.7	748.8
17.5°	717.8	719.1	722.8	729.4	733.9
20°	698.8	700.1	705.0	712.5	717.8
22.5°	677.8	679.4	684.4	693.5	698.0
25°	653.0	656.3	662.1	671.2	676.6
27.5°	627.4	631.1	636.5	647.7	652.6
30°	599.4	601.8	609.7	620.0	625.8
32.5°	569.6	572.1	578.7	591.1	596.1
35°	539.1	541.6	547.8	558.9	564.7
37.5°	506.1	508.1	515.6	524.2	530.4
40°	471.4	474.3	479.2	489.6	494.9
42.5°	437.6	438.8	444.2	454.5	458.6
45°	402.9	403.3	409.1	417.3	421.0
47.5°	367.0	367.8	374.8	379.8	383.5
50°	333.5	333.9	338.9	343.4	347.6
52.5°	300.1	300.1	302.6	307.5	312.9
55°	268.7	268.3	269.5	274.1	277.4
57.5°	239.0	238.6	240.2	243.1	245.6
60°	210.1	209.3	210.9	212.6	215.9
62.5°	184.5	185.3	183.3	185.8	188.2
65°	161.8	161.0	158.5	159.7	162.2
67.5°	142.4	141.2	137.0	137.9	140.8
70°	124.7	122.2	117.6	117.6	119.7
72.5°	108.6	106.1	100.3	100.7	101.5
75°	94.9	90.8	85.9	84.2	86.3
77.5°	80.1	76.8	72.2	71.0	71.8
80°	66.0	63.6	58.2	56.6	57.8
82.5°	52.4	50.4	44.2	42.9	43.3
85°	36.3	35.9	31.0	28.5	29.3
87.5°	19.4	19.8	16.1	14.4	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)