

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: P291970

Luminaire Tested: **22GR-LD5-20-F125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291970
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-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: 2162.0 lumens
Efficiency: N/A
Efficacy: 135.9 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

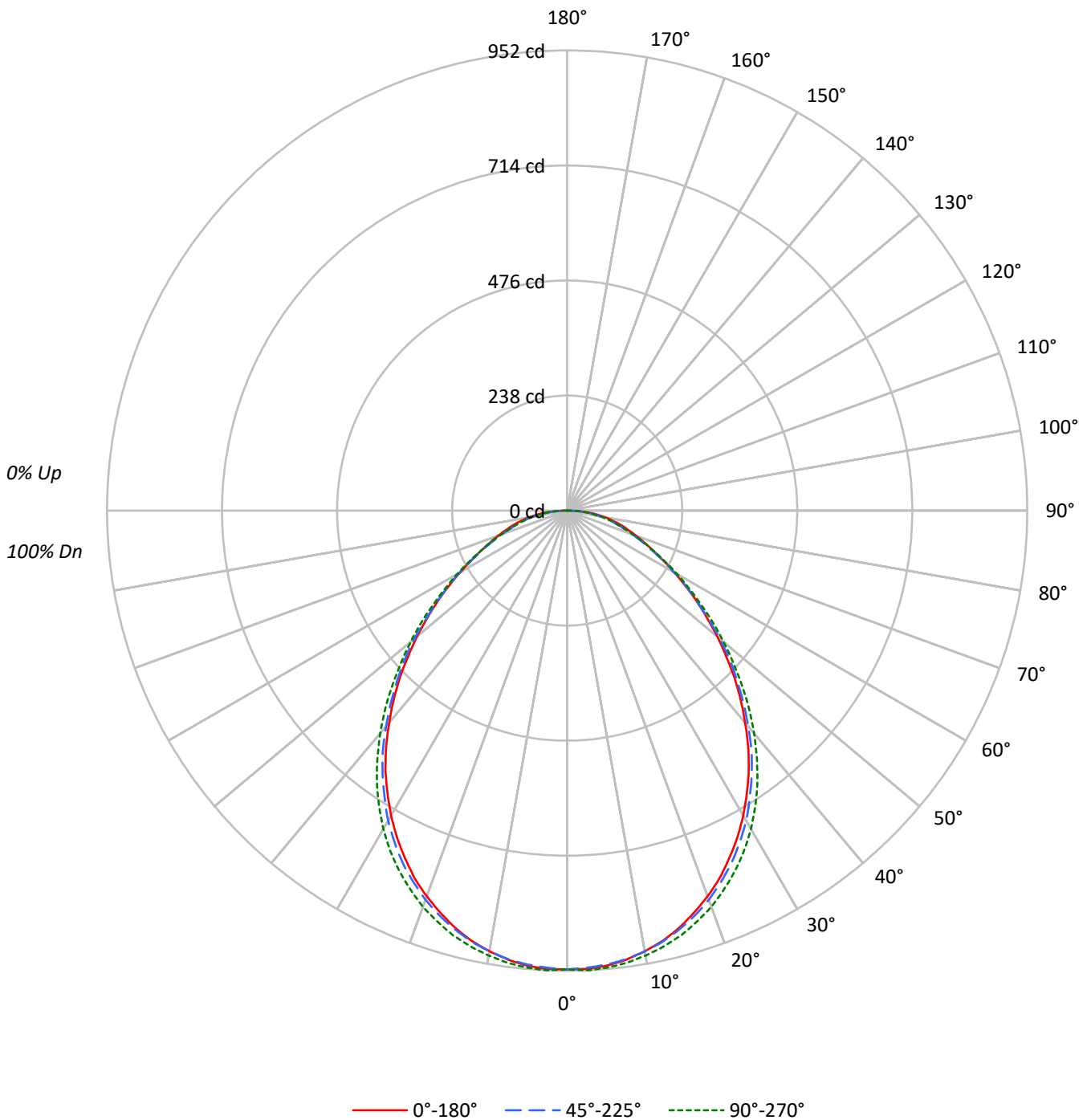
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2554	2554	2554
5°	2553	2546	2564
10°	2529	2531	2554
15°	2490	2499	2535
20°	2432	2454	2498
25°	2356	2389	2441
30°	2263	2302	2363
35°	2152	2187	2255
40°	2012	2046	2113
45°	1863	1892	1947
50°	1697	1724	1768
55°	1532	1537	1582
60°	1374	1379	1412
65°	1252	1226	1255
70°	1192	1125	1145
75°	1200	1084	1090
80°	1244	1096	1088
85°	1362	1161	1099



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	4.1
10°-20°	253.3	11.7
20°-30°	370.7	17.1
30°-40°	416.8	19.3
40°-50°	384.4	17.8
50°-60°	296.3	13.7
60°-70°	195.5	9.0
70°-80°	113.8	5.3
80°-90°	41.5	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°	713.7	33.0
0°-40°	1130.6	52.3
0°-60°	1811.3	83.8
0°-90°	2162.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2162.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	949	949	949	949	949	
5°	945	943	943	947	949	90
15°	894	894	897	905	910	252
25°	794	798	805	816	822	365
35°	655	658	666	679	686	408
45°	490	490	497	507	512	377
55°	327	326	328	333	337	293
65°	197	196	193	194	197	197
75°	115	110	104	102	105	122
85°	44	44	38	35	36	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	949.1	949.1	949.1	949.1	949.1
2.5°	949.1	947.1	946.6	950.1	952.1
5°	945.1	943.1	942.6	947.1	949.1
7.5°	937.1	935.6	936.1	941.1	943.6
10°	925.5	925.0	926.1	931.6	934.6
12.5°	912.0	911.5	913.5	919.5	923.5
15°	893.9	893.9	897.0	905.0	910.0
17.5°	872.4	873.9	878.4	886.4	891.9
20°	849.3	850.8	856.8	865.9	872.4
22.5°	823.7	825.7	831.7	842.8	848.3
25°	793.6	797.6	804.7	815.7	822.2
27.5°	762.5	767.0	773.5	787.1	793.1
30°	728.4	731.4	740.9	753.5	760.5
32.5°	692.3	695.3	703.3	718.4	724.4
35°	655.2	658.2	665.7	679.2	686.3
37.5°	615.0	617.5	626.6	637.1	644.6
40°	572.9	576.4	582.4	595.0	601.5
42.5°	531.8	533.3	539.8	552.3	557.3
45°	489.6	490.1	497.1	507.2	511.7
47.5°	446.0	447.0	455.5	461.5	466.0
50°	405.3	405.8	411.9	417.4	422.4
52.5°	364.7	364.7	367.7	373.7	380.3
55°	326.6	326.1	327.6	333.1	337.1
57.5°	290.5	290.0	292.0	295.5	298.5
60°	255.3	254.3	256.3	258.4	262.4
62.5°	224.2	225.2	222.7	225.7	228.8
65°	196.6	195.6	192.6	194.1	197.1
67.5°	173.1	171.6	166.5	167.6	171.1
70°	151.5	148.5	143.0	143.0	145.5
72.5°	131.9	128.9	121.9	122.4	123.4
75°	115.4	110.4	104.3	102.3	104.8
77.5°	97.3	93.3	87.8	86.3	87.3
80°	80.3	77.3	70.7	68.7	70.2
82.5°	63.7	61.2	53.7	52.2	52.7
85°	44.1	43.6	37.6	34.6	35.6
87.5°	23.6	24.1	19.6	17.6	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)