

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: P291931

Luminaire Tested: **22GR-LD5-20-F125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291931
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-L83050-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2183.0 lumens
Efficiency: N/A
Efficacy: 138.1 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

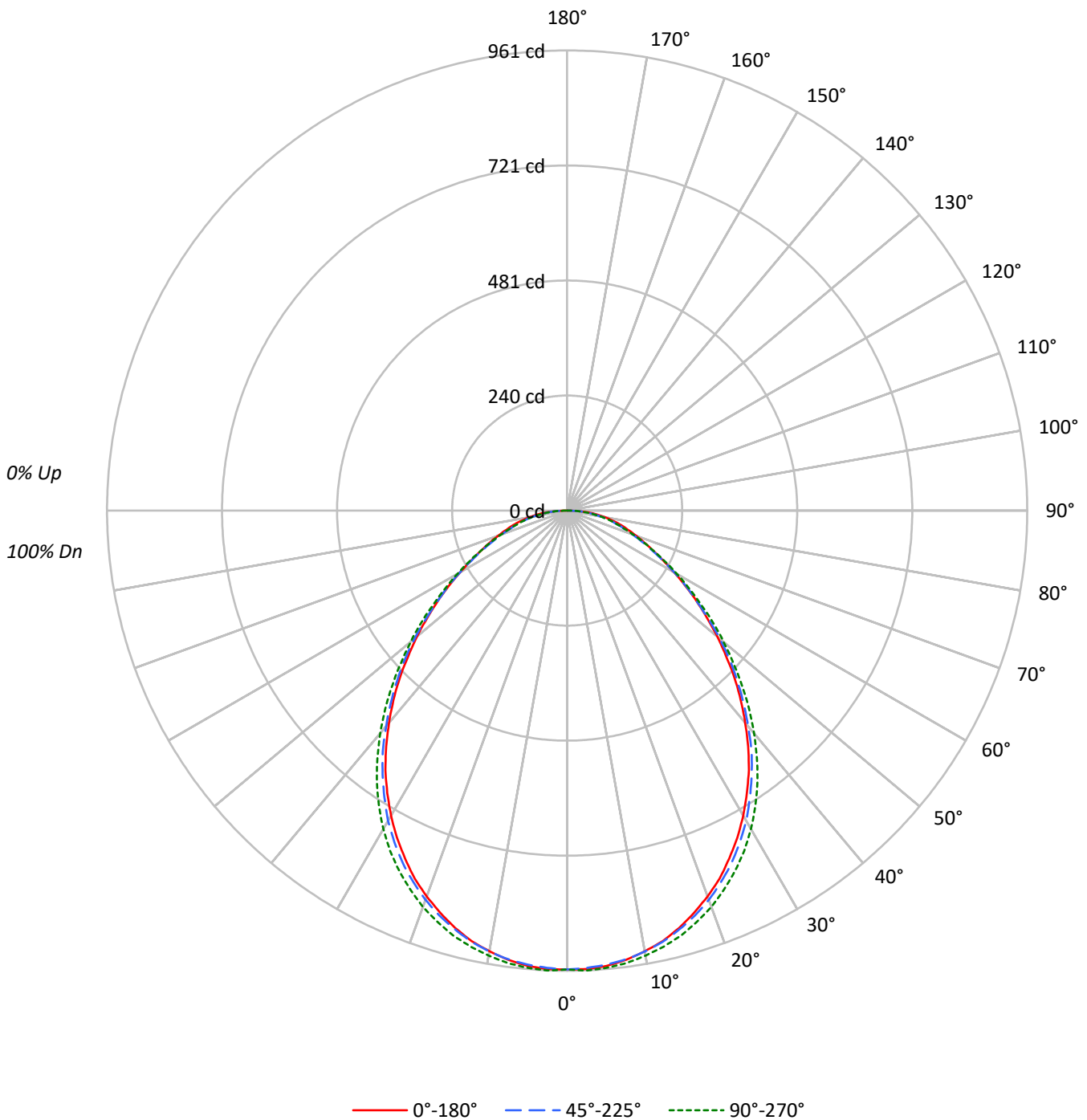
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2579	2579	2579
5°	2578	2571	2589
10°	2554	2555	2579
15°	2515	2523	2560
20°	2456	2477	2522
25°	2379	2412	2465
30°	2285	2325	2386
35°	2173	2208	2276
40°	2032	2066	2133
45°	1881	1910	1966
50°	1714	1741	1786
55°	1547	1552	1597
60°	1387	1393	1426
65°	1265	1238	1268
70°	1204	1136	1156
75°	1211	1096	1101
80°	1255	1106	1099
85°	1377	1173	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	4.1
10°-20°	255.8	11.7
20°-30°	374.3	17.1
30°-40°	420.9	19.3
40°-50°	388.1	17.8
50°-60°	299.2	13.7
60°-70°	197.4	9.0
70°-80°	114.9	5.3
80°-90°	41.9	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°	720.7	33.0
0°-40°	1141.5	52.3
0°-60°	1828.8	83.8
0°-90°	2183.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2183.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	958	958	958	958	958	
5°	954	952	952	956	958	90
15°	903	903	906	914	919	254
25°	801	805	812	824	830	369
35°	662	665	672	686	693	412
45°	494	495	502	512	517	381
55°	330	329	331	336	340	296
65°	199	198	194	196	199	199
75°	116	111	105	103	106	123
85°	45	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°	958.3	958.3	958.3	958.3	958.3
2.5°	958.3	956.3	955.8	959.4	961.4
5°	954.3	952.3	951.8	956.3	958.3
7.5°	946.2	944.7	945.2	950.2	952.8
10°	934.5	934.0	935.0	940.6	943.7
12.5°	920.9	920.4	922.4	928.5	932.5
15°	902.6	902.6	905.7	913.8	918.8
17.5°	880.8	882.4	886.9	895.0	900.6
20°	857.5	859.1	865.1	874.3	880.8
22.5°	831.7	833.7	839.8	851.0	856.5
25°	801.3	805.4	812.5	823.6	830.2
27.5°	769.9	774.5	781.1	794.7	800.8
30°	735.5	738.5	748.1	760.8	767.9
32.5°	699.0	702.0	710.1	725.3	731.4
35°	661.5	664.6	672.2	685.8	692.9
37.5°	621.0	623.5	632.7	643.3	650.9
40°	578.5	582.0	588.1	600.7	607.3
42.5°	536.9	538.4	545.0	557.7	562.7
45°	494.4	494.9	502.0	512.1	516.7
47.5°	450.3	451.3	459.9	466.0	470.6
50°	409.3	409.8	415.9	421.4	426.5
52.5°	368.2	368.2	371.3	377.4	383.9
55°	329.7	329.2	330.8	336.3	340.4
57.5°	293.3	292.8	294.8	298.3	301.4
60°	257.8	256.8	258.8	260.9	264.9
62.5°	226.4	227.4	224.9	227.9	231.0
65°	198.6	197.5	194.5	196.0	199.1
67.5°	174.8	173.2	168.2	169.2	172.7
70°	153.0	149.9	144.4	144.4	146.9
72.5°	133.2	130.2	123.1	123.6	124.6
75°	116.5	111.4	105.4	103.3	105.9
77.5°	98.3	94.2	88.6	87.1	88.1
80°	81.0	78.0	71.4	69.4	70.9
82.5°	64.3	61.8	54.2	52.7	53.2
85°	44.6	44.1	38.0	35.0	36.0
87.5°	23.8	24.3	19.8	17.7	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)