

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: P292361

Luminaire Tested: **22GR-LD5-20-A125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292361
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-20-A125-UNV-L82765-W2A1-U-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2130.0 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

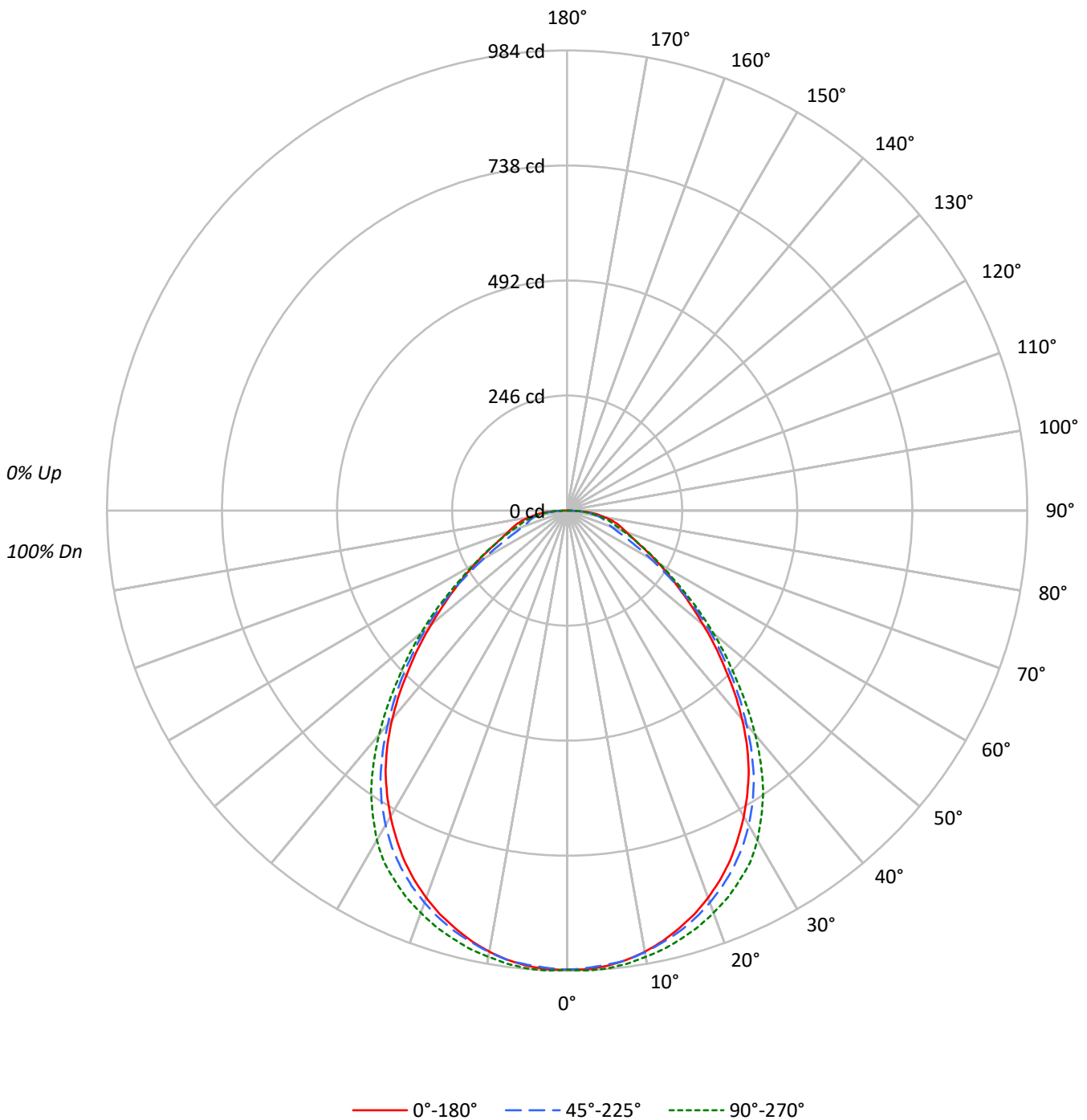
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2642	2642	2642
5°	2640	2633	2655
10°	2618	2620	2648
15°	2576	2594	2639
20°	2523	2556	2621
25°	2449	2499	2591
30°	2347	2413	2529
35°	2224	2286	2401
40°	2044	2095	2200
45°	1816	1882	1950
50°	1586	1659	1709
55°	1379	1398	1449
60°	1214	1112	1237
65°	1078	889	1084
70°	1059	789	1000
75°	1156	867	1022
80°	1269	1031	1093
85°	1519	1195	1226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.8	4.4
10°-20°	263.1	12.4
20°-30°	388.5	18.2
30°-40°	434.7	20.4
40°-50°	381.7	17.9
50°-60°	270.1	12.7
60°-70°	157.2	7.4
70°-80°	98.0	4.6
80°-90°	43.8	2.1
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°	744.4	34.9
0°-40°	1179.1	55.4
0°-60°	1831.0	86.0
0°-90°	2130.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2130.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	982	982	982	982	982	
5°	977	975	975	980	983	93
15°	925	927	931	941	947	261
25°	825	828	842	862	873	379
35°	677	680	696	717	731	421
45°	477	483	495	507	512	369
55°	294	300	298	303	309	266
65°	169	156	140	152	170	172
75°	111	96	83	85	98	116
85°	49	51	39	38	40	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	981.8	981.8	981.8	981.8	981.8
2.5°	981.8	979.8	978.8	982.3	984.3
5°	977.4	974.9	974.9	979.8	982.8
7.5°	969.4	966.9	969.9	974.4	977.4
10°	958.0	957.0	959.0	964.9	968.9
12.5°	943.1	943.6	945.6	955.0	960.0
15°	924.7	926.7	931.2	941.1	947.1
17.5°	904.8	906.3	913.3	924.7	933.2
20°	881.0	884.0	892.4	906.8	915.3
22.5°	854.7	858.2	868.6	886.0	896.4
25°	824.9	828.4	841.8	861.6	872.6
27.5°	791.1	796.6	811.5	833.3	848.2
30°	755.4	759.8	776.7	801.6	814.0
32.5°	717.1	722.6	738.5	762.3	773.2
35°	676.9	679.9	695.8	716.6	731.0
37.5°	631.2	632.7	647.6	667.0	679.9
40°	582.0	583.0	596.4	614.8	626.2
42.5°	530.9	531.4	545.8	559.7	569.6
45°	477.3	482.7	494.6	506.6	512.5
47.5°	429.1	433.1	444.0	454.4	459.9
50°	378.9	388.9	396.3	401.8	408.2
52.5°	335.7	344.2	346.1	352.6	358.1
55°	294.0	300.0	298.0	303.4	308.9
57.5°	258.7	255.8	249.3	258.7	265.7
60°	225.5	217.5	206.6	219.5	229.9
62.5°	195.7	182.8	169.3	182.3	199.6
65°	169.3	155.9	139.6	152.0	170.3
67.5°	149.5	135.6	116.2	128.6	147.0
70°	134.6	120.2	100.3	110.7	127.1
72.5°	122.7	107.3	89.9	96.8	110.7
75°	111.2	95.8	83.4	85.4	98.3
77.5°	97.8	86.4	76.5	75.5	85.4
80°	81.9	78.5	66.5	65.1	70.5
82.5°	67.5	66.1	54.6	53.1	55.1
85°	49.2	51.2	38.7	37.7	39.7
87.5°	25.8	28.3	20.4	21.4	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)