

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: P292125

Luminaire Tested: **22GR-LD5-20-A-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292125
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-20-A-UNV-L83050-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1959.0 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

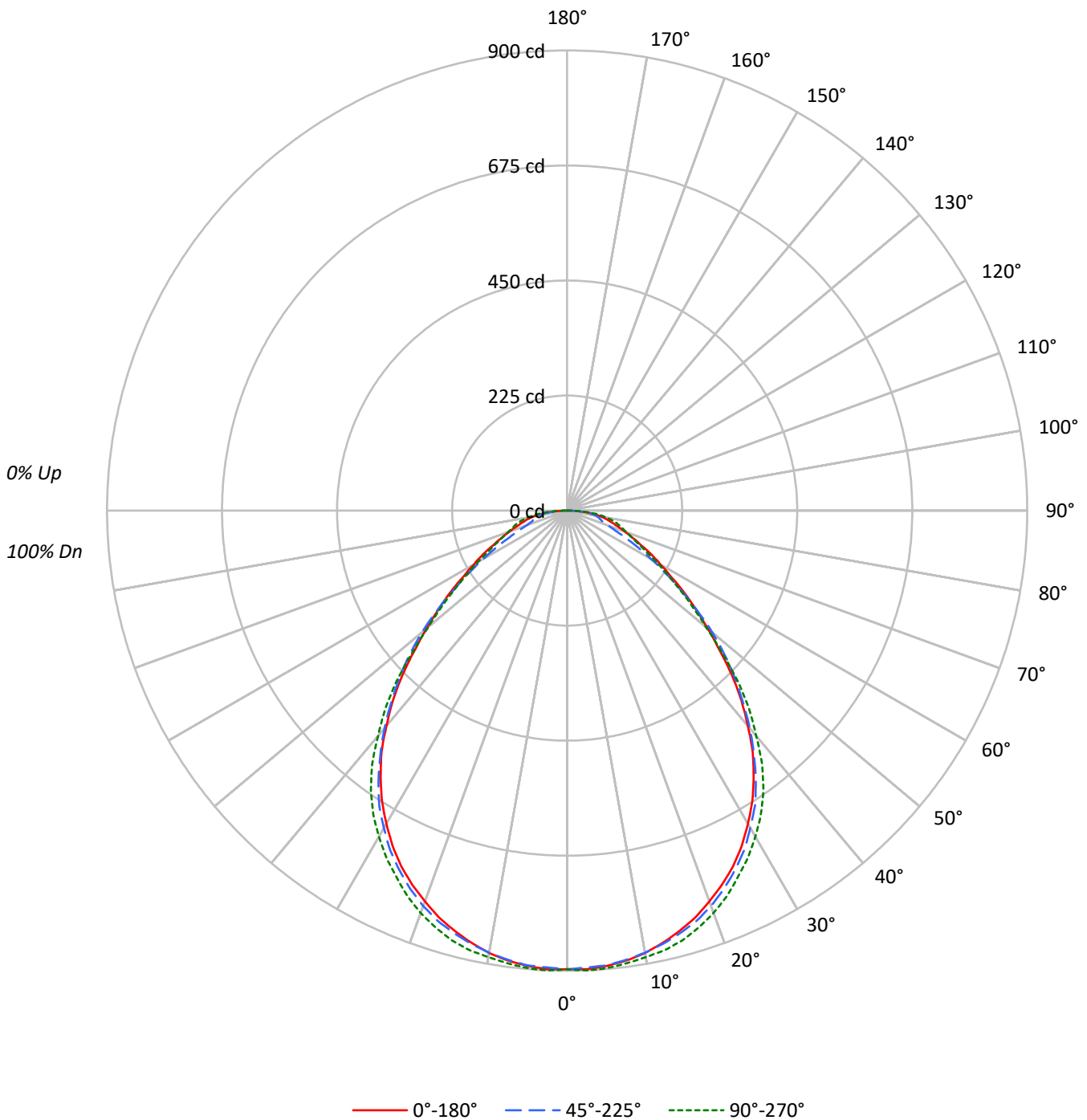
Input Watts (W): 15.438
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86																												
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74																												
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64																												
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56																												
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49																												
6	74	62	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	53	46	42	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	35	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	30																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2414	2414	2414
5°	2415	2411	2426
10°	2400	2399	2423
15°	2370	2383	2425
20°	2329	2356	2398
25°	2279	2305	2347
30°	2197	2227	2288
35°	2089	2113	2198
40°	1931	1952	2021
45°	1735	1766	1794
50°	1500	1554	1485
55°	1309	1275	1258
60°	1133	1020	1089
65°	1013	801	978
70°	939	663	965
75°	939	702	1071
80°	1038	883	1209
85°	1084	957	1365



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.9	4.3
10°-20°	241.8	12.3
20°-30°	357.6	18.3
30°-40°	403.5	20.6
40°-50°	355.7	18.2
50°-60°	244.0	12.5
60°-70°	144.0	7.4
70°-80°	89.9	4.6
80°-90°	37.5	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°	684.3	34.9
0°-40°	1087.9	55.5
0°-60°	1687.6	86.1
0°-90°	1959.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1959.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	897	897	897	897	897	
5°	894	892	893	896	898	85
15°	851	852	855	866	870	240
25°	768	770	776	786	790	353
35°	636	641	643	659	669	396
45°	456	458	464	467	471	350
55°	279	272	272	263	268	250
65°	159	140	126	145	154	160
75°	90	81	68	94	103	97
85°	35	33	31	41	44	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	897.2	897.2	897.2	897.2	897.2
2.5°	897.6	895.3	894.4	898.1	900.3
5°	894.0	892.1	892.6	895.8	898.1
7.5°	887.6	886.2	886.2	890.8	893.0
10°	878.5	878.0	878.0	883.5	886.7
12.5°	865.7	866.2	868.0	875.3	880.7
15°	850.7	851.6	855.2	865.7	870.3
17.5°	834.2	834.2	841.5	849.7	855.2
20°	813.3	814.6	822.8	832.0	837.4
22.5°	791.8	794.1	801.0	811.4	816.5
25°	767.7	770.4	776.3	786.4	790.5
27.5°	739.4	743.1	749.4	756.7	765.4
30°	707.1	712.5	716.6	726.7	736.2
32.5°	674.2	679.2	683.8	694.3	705.2
35°	635.9	641.4	643.2	658.7	669.2
37.5°	596.7	599.0	599.9	615.4	626.8
40°	549.8	554.3	555.7	568.0	575.3
42.5°	504.6	506.5	509.2	518.3	527.0
45°	455.9	458.1	464.1	466.8	471.4
47.5°	404.8	411.7	418.5	409.8	410.3
50°	358.3	363.8	371.1	354.7	354.7
52.5°	316.8	319.6	320.0	306.3	309.1
55°	279.0	272.2	271.7	262.6	268.1
57.5°	241.2	232.0	228.8	226.1	232.5
60°	210.6	194.2	189.6	193.7	202.4
62.5°	185.5	164.6	155.9	166.4	174.1
65°	159.1	140.0	125.8	145.4	153.6
67.5°	138.6	120.3	102.1	129.9	135.8
70°	119.4	105.3	84.3	118.1	122.6
72.5°	103.9	93.0	72.9	106.7	112.1
75°	90.3	81.1	67.5	94.4	103.0
77.5°	79.3	69.3	62.9	81.6	92.1
80°	67.0	57.0	57.0	68.4	78.0
82.5°	52.9	44.7	46.0	55.6	62.5
85°	35.1	32.8	31.0	40.6	44.2
87.5°	17.8	18.2	16.4	21.0	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)