

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: P291773

Luminaire Tested: **22GR-LD5-20-F1-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291773
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-20-F1-UNV-L82765-W2A1-U-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2141.0 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

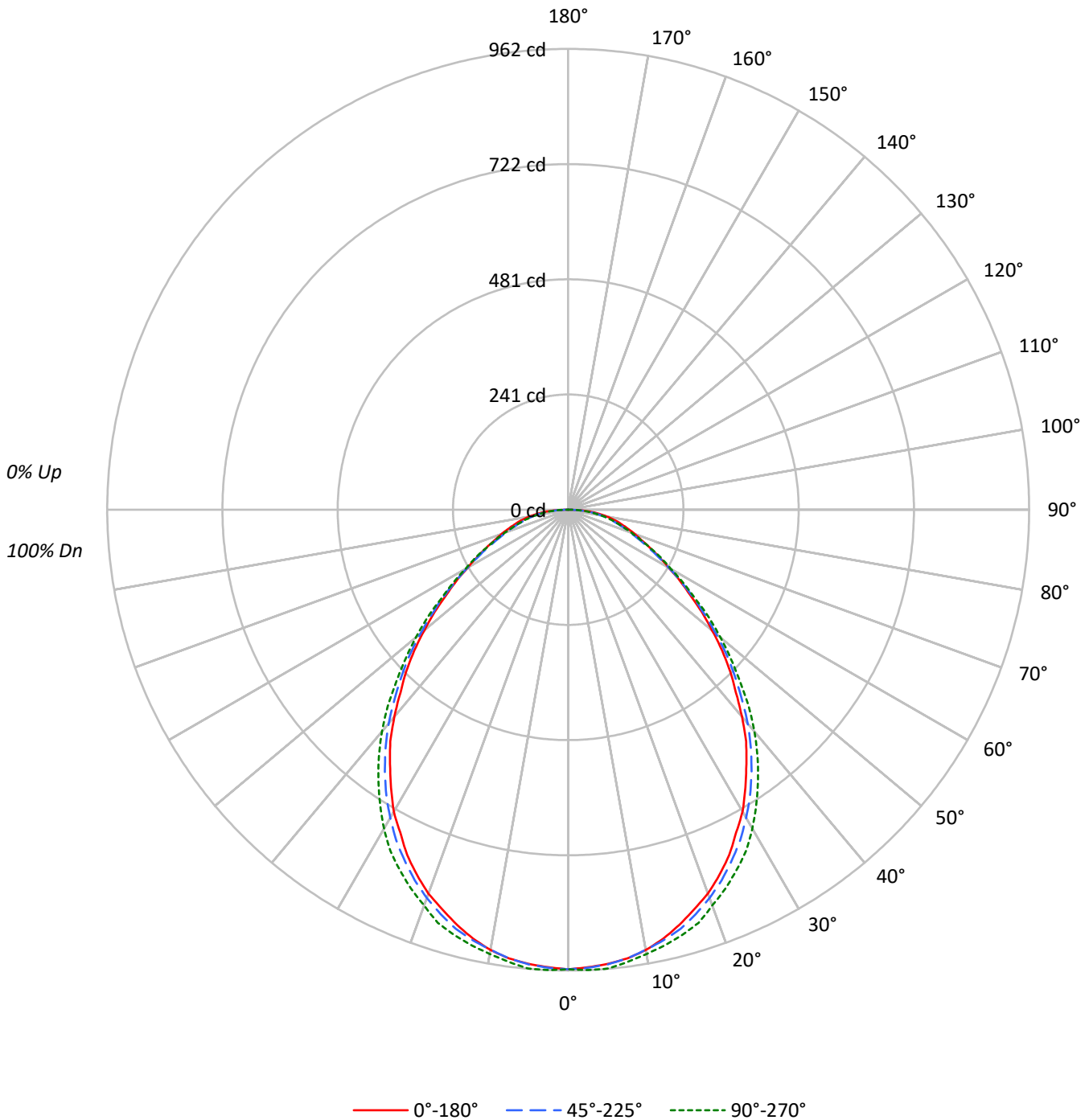
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	101	93	87	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	46	41	53	46	41	51	45	40	50	44	40	38					38			
8	63	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34					34			
9	59	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	30	42	35	30	41	35	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2582	2582	2582
5°	2571	2573	2597
10°	2551	2549	2573
15°	2499	2523	2561
20°	2442	2470	2518
25°	2361	2399	2466
30°	2261	2307	2388
35°	2129	2190	2268
40°	1982	2049	2123
45°	1819	1872	1929
50°	1641	1682	1736
55°	1456	1491	1516
60°	1305	1307	1334
65°	1202	1161	1202
70°	1161	1076	1106
75°	1181	1053	1074
80°	1272	1105	1105
85°	1411	1170	1155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	4.2
10°-20°	255.3	11.9
20°-30°	372.6	17.4
30°-40°	417.1	19.5
40°-50°	379.6	17.7
50°-60°	285.7	13.3
60°-70°	186.4	8.7
70°-80°	111.8	5.2
80°-90°	41.9	2.0
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°	718.3	33.6
0°-40°	1135.5	53.0
0°-60°	1800.8	84.1
0°-90°	2141.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2141.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	959	959	959	959	959	
5°	952	950	952	956	961	90
15°	897	898	906	913	919	253
25°	795	798	808	823	831	365
35°	648	654	667	683	690	405
45°	478	483	492	502	507	368
55°	310	315	318	322	323	280
65°	189	187	182	185	189	189
75°	114	110	101	102	103	121
85°	46	44	38	36	37	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	959.4	959.4	959.4	959.4	959.4
2.5°	956.0	955.5	957.0	959.4	961.9
5°	951.6	950.1	952.5	956.0	961.4
7.5°	944.7	944.7	944.7	951.1	952.1
10°	933.4	934.3	932.9	939.3	941.7
12.5°	917.1	917.6	920.6	927.0	931.4
15°	897.0	898.0	905.8	913.2	919.1
17.5°	874.4	877.8	885.2	897.0	904.4
20°	852.7	856.6	862.6	875.3	879.3
22.5°	825.2	829.6	837.0	848.3	856.6
25°	795.2	797.6	808.0	822.7	830.6
27.5°	759.3	764.7	777.5	792.7	803.5
30°	727.8	730.8	742.6	760.3	768.6
32.5°	688.0	696.8	706.7	722.4	730.3
35°	648.1	654.0	666.8	682.6	690.4
37.5°	609.8	613.2	626.0	639.3	649.1
40°	564.1	570.4	583.2	597.5	604.4
42.5°	518.3	527.7	536.0	550.3	557.7
45°	478.0	482.9	491.8	502.1	507.0
47.5°	435.7	438.2	448.5	454.9	460.3
50°	391.9	394.9	401.8	408.2	414.6
52.5°	351.6	354.1	358.5	364.4	370.8
55°	310.3	314.7	317.7	322.1	323.1
57.5°	276.9	276.4	278.3	281.8	285.2
60°	242.4	243.4	242.9	246.4	247.8
62.5°	213.9	213.4	210.5	215.4	219.3
65°	188.8	186.9	182.4	185.4	188.8
67.5°	165.7	164.7	157.4	159.8	162.8
70°	147.5	144.1	136.7	138.2	140.6
72.5°	129.8	125.9	118.5	119.0	120.5
75°	113.6	109.7	101.3	101.8	103.3
77.5°	98.4	93.4	86.1	85.1	86.1
80°	82.1	77.7	71.3	68.4	71.3
82.5°	65.4	62.9	55.6	52.6	53.6
85°	45.7	44.3	37.9	35.9	37.4
87.5°	21.1	22.6	19.2	17.7	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)