

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: P291771

Luminaire Tested: **22GR-LD5-20-F1-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291771
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-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2075.0 lumens
Efficiency: N/A
Efficacy: 132.8 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

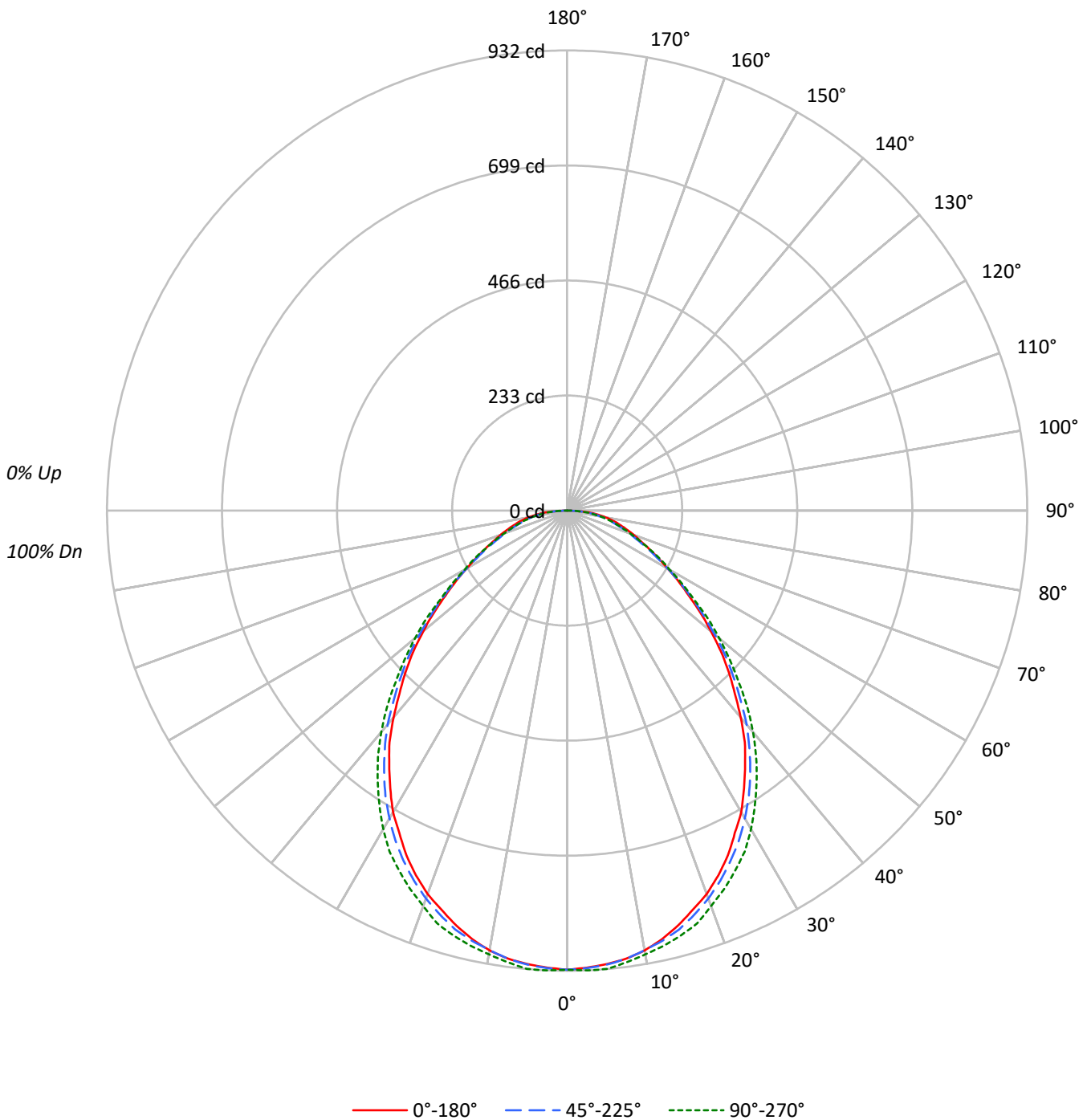
Input Watts (W): 15.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2502	2502	2502
5°	2491	2494	2517
10°	2472	2470	2494
15°	2422	2446	2482
20°	2367	2394	2440
25°	2288	2325	2390
30°	2192	2236	2315
35°	2064	2123	2198
40°	1920	1986	2057
45°	1763	1814	1870
50°	1590	1630	1682
55°	1411	1445	1469
60°	1265	1267	1293
65°	1165	1126	1165
70°	1125	1042	1072
75°	1145	1021	1041
80°	1234	1071	1071
85°	1368	1133	1118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.7	4.2
10°-20°	247.4	11.9
20°-30°	361.1	17.4
30°-40°	404.3	19.5
40°-50°	367.9	17.7
50°-60°	276.9	13.3
60°-70°	180.7	8.7
70°-80°	108.4	5.2
80°-90°	40.6	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°	696.2	33.6
0°-40°	1100.4	53.0
0°-60°	1745.3	84.1
0°-90°	2075.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2075.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	930	930	930	930	930	
5°	922	921	923	926	932	88
15°	869	870	878	885	891	245
25°	771	773	783	797	805	354
35°	628	634	646	662	669	393
45°	463	468	477	487	491	357
55°	301	305	308	312	313	272
65°	183	181	177	180	183	183
75°	110	106	98	99	100	117
85°	44	43	37	35	36	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	929.9	929.9	929.9	929.9	929.9
2.5°	926.5	926.0	927.5	929.9	932.2
5°	922.2	920.8	923.2	926.5	931.8
7.5°	915.6	915.6	915.6	921.8	922.7
10°	904.6	905.5	904.1	910.3	912.7
12.5°	888.9	889.3	892.2	898.4	902.7
15°	869.3	870.3	877.9	885.1	890.8
17.5°	847.4	850.7	857.9	869.3	876.5
20°	826.4	830.2	836.0	848.4	852.2
22.5°	799.7	804.0	811.2	822.1	830.2
25°	770.7	773.0	783.1	797.4	805.0
27.5°	735.9	741.1	753.5	768.3	778.8
30°	705.4	708.2	719.7	736.8	744.9
32.5°	666.8	675.3	684.9	700.1	707.8
35°	628.2	633.9	646.3	661.5	669.2
37.5°	591.0	594.3	606.7	619.6	629.1
40°	546.7	552.9	565.3	579.1	585.7
42.5°	502.3	511.4	519.5	533.3	540.5
45°	463.3	468.0	476.6	486.6	491.4
47.5°	422.3	424.7	434.7	440.9	446.1
50°	379.9	382.7	389.4	395.6	401.8
52.5°	340.8	343.2	347.4	353.2	359.4
55°	300.7	305.0	307.9	312.2	313.1
57.5°	268.3	267.9	269.8	273.1	276.4
60°	235.0	235.9	235.4	238.8	240.2
62.5°	207.3	206.8	204.0	208.8	212.6
65°	183.0	181.1	176.8	179.7	183.0
67.5°	160.6	159.7	152.5	154.9	157.8
70°	143.0	139.6	132.5	133.9	136.3
72.5°	125.8	122.0	114.9	115.3	116.8
75°	110.1	106.3	98.2	98.7	100.1
77.5°	95.3	90.6	83.4	82.5	83.4
80°	79.6	75.3	69.1	66.2	69.1
82.5°	63.4	61.0	53.9	51.0	51.9
85°	44.3	42.9	36.7	34.8	36.2
87.5°	20.5	21.9	18.6	17.2	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)