

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: P291929

Luminaire Tested: **22GR-LD5-20-F125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P291929  
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-3000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1965.0 lumens  
Efficiency: N/A  
Efficacy: 127.3 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

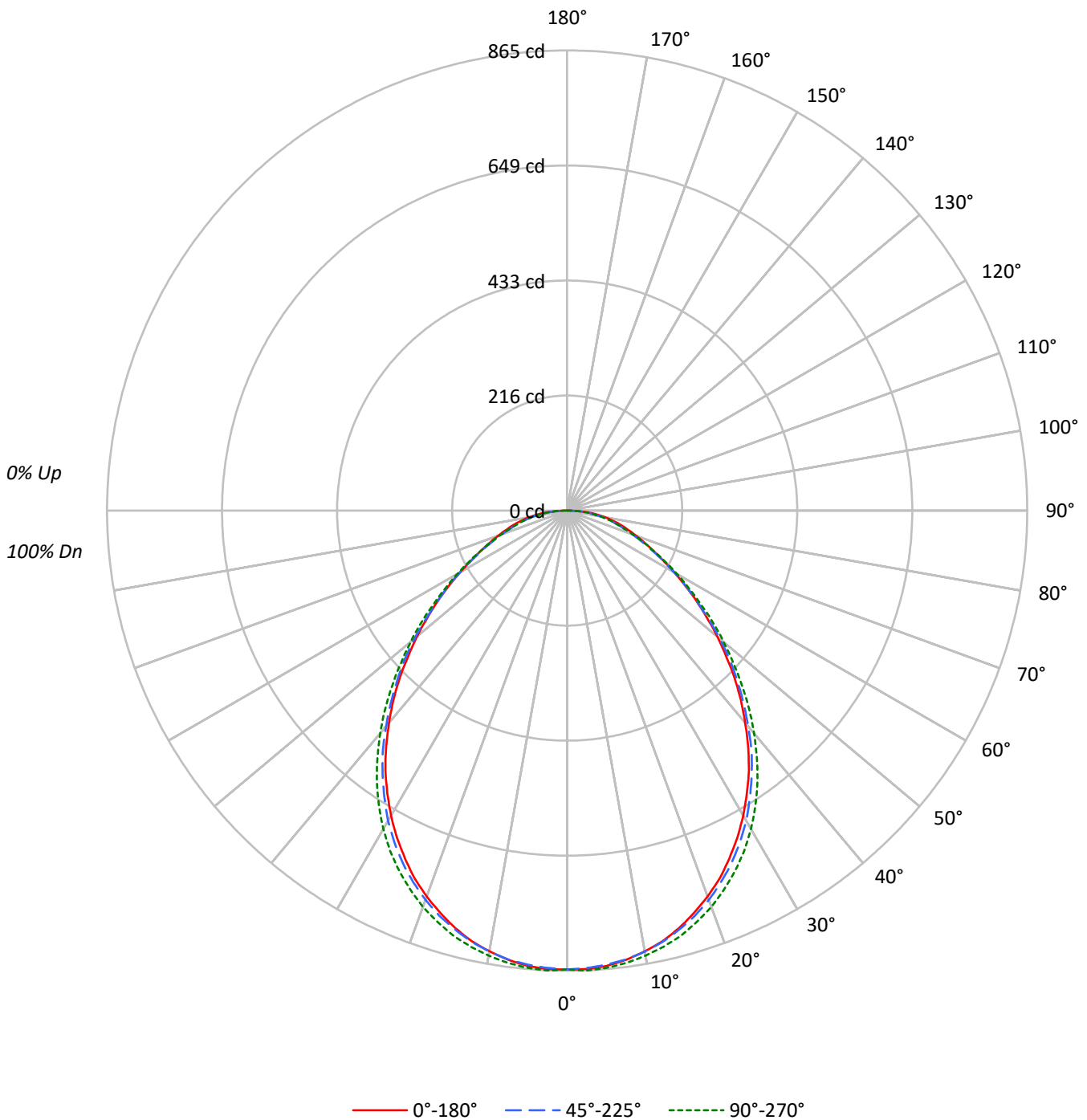
Input Watts (W): 15.438  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62					62			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54					54			
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48					48			
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42					42			
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38					38			
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2321	2321	2321
5°	2320	2314	2330
10°	2299	2300	2321
15°	2264	2271	2304
20°	2210	2230	2271
25°	2142	2171	2219
30°	2057	2092	2148
35°	1956	1987	2049
40°	1829	1859	1920
45°	1694	1719	1770
50°	1542	1567	1607
55°	1392	1397	1437
60°	1249	1254	1284
65°	1138	1115	1141
70°	1083	1022	1040
75°	1091	986	991
80°	1131	996	989
85°	1238	1056	1000



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.5	4.1
10°-20°	230.2	11.7
20°-30°	337.0	17.1
30°-40°	378.9	19.3
40°-50°	349.4	17.8
50°-60°	269.3	13.7
60°-70°	177.7	9.0
70°-80°	103.4	5.3
80°-90°	37.7	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°	648.7	33.0
0°-40°	1027.5	52.3
0°-60°	1646.2	83.8
0°-90°	1965.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1965.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	863	863	863	863	863	
5°	859	857	857	861	863	81
15°	812	812	815	822	827	229
25°	721	725	731	741	747	332
35°	596	598	605	617	624	371
45°	445	446	452	461	465	343
55°	297	296	298	303	306	266
65°	179	178	175	176	179	179
75°	105	100	95	93	95	110
85°	40	40	34	32	32	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	862.6	862.6	862.6	862.6	862.6
2.5°	862.6	860.8	860.4	863.6	865.4
5°	859.0	857.2	856.7	860.8	862.6
7.5°	851.7	850.3	850.8	855.3	857.6
10°	841.2	840.8	841.7	846.7	849.4
12.5°	828.9	828.4	830.3	835.7	839.4
15°	812.5	812.5	815.2	822.5	827.1
17.5°	792.9	794.3	798.4	805.7	810.7
20°	771.9	773.3	778.7	787.0	792.9
22.5°	748.7	750.5	756.0	766.0	771.0
25°	721.3	724.9	731.3	741.4	747.3
27.5°	693.0	697.1	703.1	715.4	720.8
30°	662.0	664.8	673.4	684.8	691.2
32.5°	629.2	631.9	639.2	652.9	658.4
35°	595.5	598.2	605.0	617.3	623.7
37.5°	559.0	561.3	569.5	579.0	585.9
40°	520.7	523.9	529.3	540.7	546.7
42.5°	483.3	484.7	490.6	502.0	506.6
45°	445.0	445.5	451.8	461.0	465.1
47.5°	405.3	406.2	414.0	419.5	423.6
50°	368.4	368.9	374.3	379.3	383.9
52.5°	331.5	331.5	334.2	339.7	345.6
55°	296.8	296.4	297.7	302.7	306.4
57.5°	264.0	263.5	265.4	268.6	271.3
60°	232.1	231.2	233.0	234.8	238.5
62.5°	203.8	204.7	202.4	205.2	207.9
65°	178.7	177.8	175.1	176.4	179.2
67.5°	157.3	155.9	151.4	152.3	155.5
70°	137.7	135.0	129.9	129.9	132.2
72.5°	119.9	117.2	110.8	111.2	112.2
75°	104.9	100.3	94.8	93.0	95.3
77.5°	88.5	84.8	79.8	78.4	79.3
80°	73.0	70.2	64.3	62.5	63.8
82.5°	57.9	55.6	48.8	47.4	47.9
85°	40.1	39.7	34.2	31.5	32.4
87.5°	21.4	21.9	17.8	16.0	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)