

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: P290894

Luminaire Tested: **14GR-LD5-20-F125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290894  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-20-F125-UNV-L92765-W2A1-U-6500K  
Description: GRLED 1x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1956.0 lumens  
Efficiency: N/A  
Efficacy: 120.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

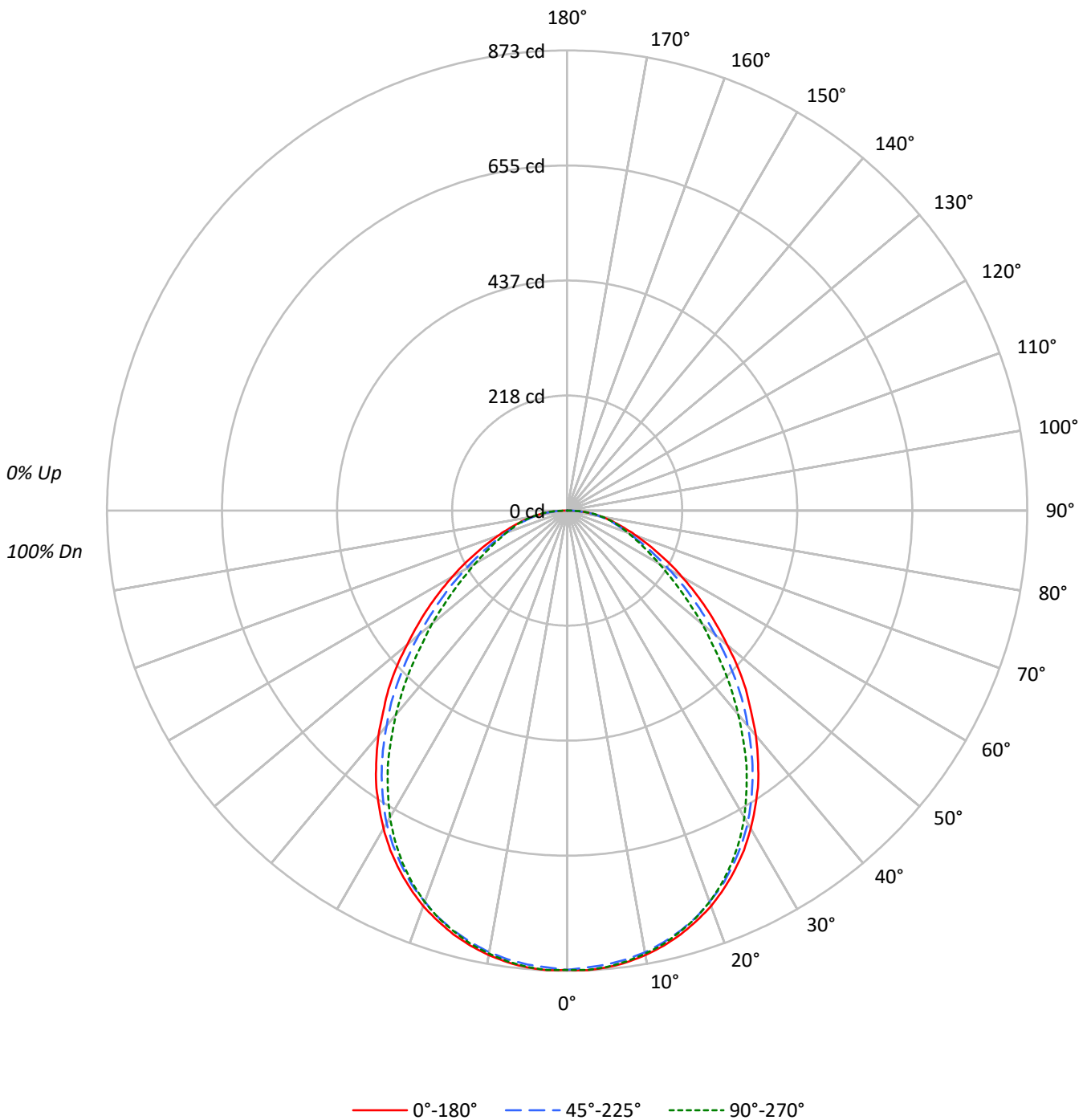
Input Watts (W): 16.275  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	88	85					85			
2	101	93	87	81	98	91	85	80	88	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	64	58	68	62	58	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	51	45	40	50	44	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34					34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28					28			

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

	0°	45°	90°
0°	2345	2345	2345
5°	2350	2335	2348
10°	2340	2325	2332
15°	2319	2301	2305
20°	2286	2261	2263
25°	2234	2207	2192
30°	2165	2128	2088
35°	2077	2016	1950
40°	1956	1872	1774
45°	1824	1714	1587
50°	1659	1538	1401
55°	1510	1363	1221
60°	1354	1201	1084
65°	1207	1070	997
70°	1098	976	965
75°	1026	950	998
80°	1032	982	1038
85°	1078	1007	1149



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.4	4.2
10°-20°	233.6	11.9
20°-30°	342.5	17.5
30°-40°	382.3	19.5
40°-50°	346.1	17.7
50°-60°	261.3	13.4
60°-70°	170.8	8.7
70°-80°	100.3	5.1
80°-90°	36.7	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°	658.5	33.7
0°-40°	1040.7	53.2
0°-60°	1648.1	84.3
0°-90°	1956.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1956.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	871	871	871	871	871	
5°	870	868	864	870	869	83
15°	832	831	826	830	827	235
25°	752	750	743	742	738	346
35°	632	627	614	600	594	394
45°	479	472	450	426	417	368
55°	322	314	291	268	260	288
65°	190	184	168	158	157	190
75°	99	96	91	93	96	106
85°	35	34	33	37	37	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	871.4	871.4	871.4	871.4	871.4
2.5°	872.8	871.4	867.3	872.8	872.3
5°	870.0	868.2	864.5	869.5	869.1
7.5°	864.5	862.7	859.0	863.6	862.7
10°	856.2	854.4	850.7	855.8	853.5
12.5°	845.7	843.8	839.7	844.3	842.5
15°	832.4	831.0	825.9	830.5	827.3
17.5°	816.3	814.0	810.3	813.1	810.8
20°	798.4	795.6	789.7	792.4	790.1
22.5°	776.8	773.1	769.0	769.0	765.8
25°	752.5	749.7	743.3	741.9	738.2
27.5°	726.3	724.0	715.7	713.5	707.0
30°	696.9	693.7	685.0	677.6	672.1
32.5°	664.3	662.0	650.1	640.5	632.6
35°	632.2	626.7	613.8	600.1	593.6
37.5°	594.5	590.4	574.3	557.4	548.6
40°	556.9	551.8	533.0	514.2	505.0
42.5°	516.0	511.4	493.5	471.0	461.4
45°	479.3	472.0	450.4	426.1	416.9
47.5°	438.9	431.1	408.1	382.4	371.9
50°	396.2	391.2	367.3	342.5	334.7
52.5°	358.1	350.3	327.8	303.5	295.2
55°	321.8	314.5	290.6	267.7	260.3
57.5°	285.6	277.3	256.6	236.0	228.6
60°	251.6	243.3	223.1	206.1	201.5
62.5°	220.8	211.6	193.7	180.4	177.2
65°	189.6	183.6	168.0	158.4	156.6
67.5°	163.4	156.1	143.7	139.1	138.2
70°	139.6	134.5	124.0	122.6	122.6
72.5°	118.0	113.9	106.1	107.0	108.3
75°	98.7	96.0	91.4	93.2	96.0
77.5°	82.2	79.4	76.7	79.4	81.3
80°	66.6	63.8	63.4	65.7	67.0
82.5°	50.0	47.7	48.2	51.9	53.3
85°	34.9	33.5	32.6	36.7	37.2
87.5°	17.9	17.0	16.5	19.7	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)