

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: P290892

Luminaire Tested: **14GR-LD5-20-F125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290892  
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-5500K  
Description: GRLED 1x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1935.0 lumens  
Efficiency: N/A  
Efficacy: 121.0 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

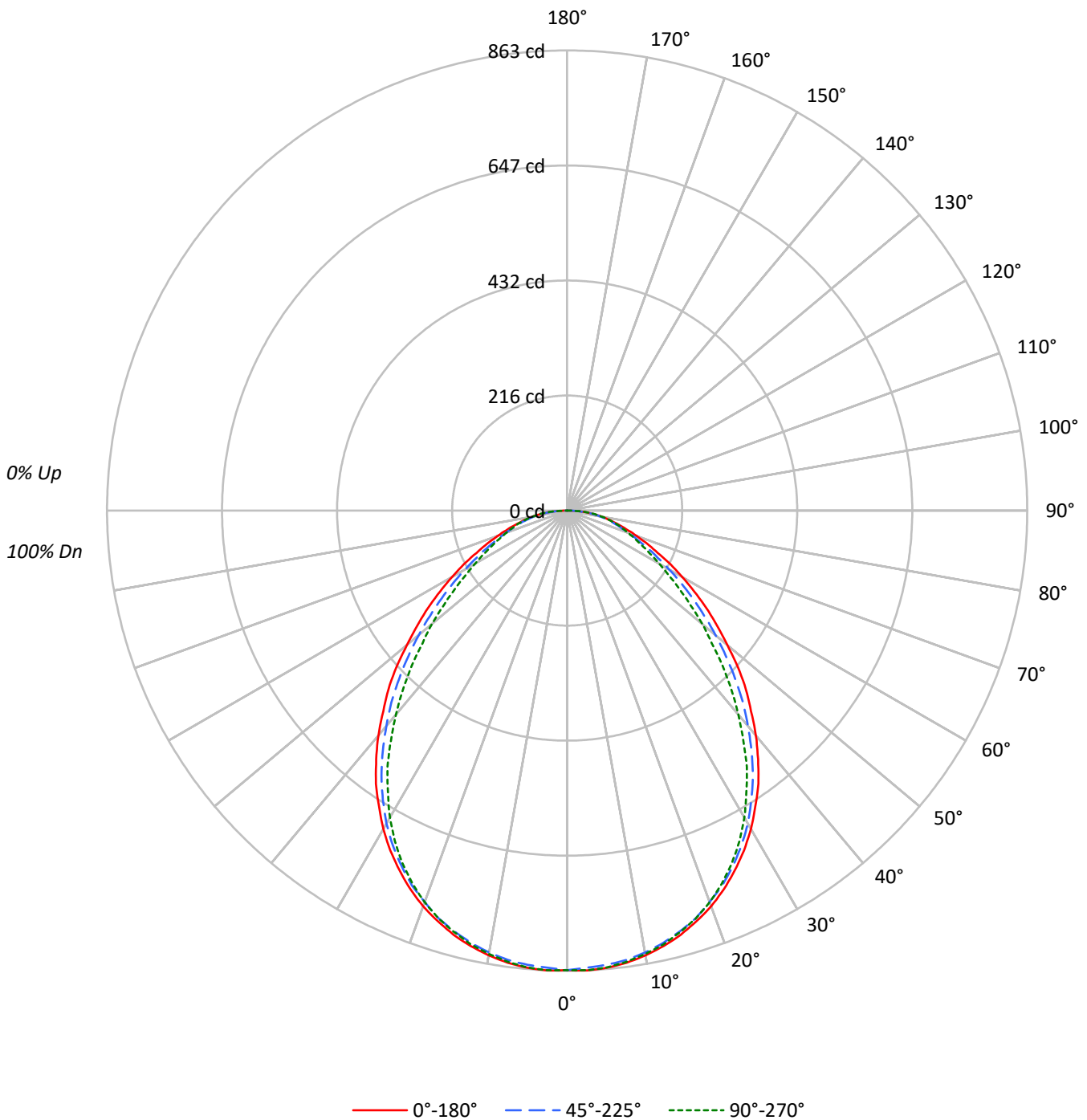
Input Watts (W): 15.996  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2320	2320	2320
5°	2325	2310	2323
10°	2314	2300	2307
15°	2294	2276	2280
20°	2262	2237	2238
25°	2210	2183	2168
30°	2142	2105	2066
35°	2054	1995	1929
40°	1935	1852	1755
45°	1805	1695	1569
50°	1641	1521	1386
55°	1494	1349	1208
60°	1340	1188	1073
65°	1195	1058	986
70°	1087	965	954
75°	1015	940	987
80°	1021	972	1027
85°	1065	994	1136



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.5	4.2
10°-20°	231.1	11.9
20°-30°	338.8	17.5
30°-40°	378.2	19.5
40°-50°	342.4	17.7
50°-60°	258.5	13.4
60°-70°	169.0	8.7
70°-80°	99.2	5.1
80°-90°	36.3	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°	651.4	33.7
0°-40°	1029.6	53.2
0°-60°	1630.4	84.3
0°-90°	1935.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1935.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	862	862	862	862	862	
5°	861	859	855	860	860	82
15°	823	822	817	822	818	232
25°	744	742	735	734	730	342
35°	625	620	607	594	587	390
45°	474	467	446	422	412	364
55°	318	311	288	265	258	285
65°	188	182	166	157	155	188
75°	98	95	90	92	95	105
85°	34	33	32	36	37	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	862.0	862.0	862.0	862.0	862.0
2.5°	863.4	862.0	857.9	863.4	862.9
5°	860.7	858.9	855.2	860.2	859.8
7.5°	855.2	853.4	849.8	854.3	853.4
10°	847.0	845.2	841.6	846.6	844.3
12.5°	836.6	834.8	830.7	835.2	833.4
15°	823.4	822.1	817.1	821.6	818.4
17.5°	807.5	805.3	801.6	804.3	802.1
20°	789.8	787.1	781.2	783.9	781.6
22.5°	768.5	764.8	760.7	760.7	757.6
25°	744.4	741.7	735.3	734.0	730.3
27.5°	718.5	716.2	708.1	705.8	699.4
30°	689.4	686.3	677.6	670.4	664.9
32.5°	657.2	654.9	643.1	633.6	625.9
35°	625.4	620.0	607.2	593.6	587.3
37.5°	588.2	584.1	568.2	551.4	542.7
40°	550.9	545.9	527.3	508.7	499.6
42.5°	510.5	506.0	488.2	466.0	456.4
45°	474.2	466.9	445.5	421.5	412.4
47.5°	434.2	426.5	403.8	378.3	367.9
50°	392.0	387.0	363.3	338.8	331.1
52.5°	354.3	346.5	324.3	300.2	292.0
55°	318.4	311.1	287.5	264.8	257.5
57.5°	282.5	274.3	253.9	233.4	226.2
60°	248.9	240.7	220.7	203.9	199.4
62.5°	218.5	209.4	191.7	178.5	175.3
65°	187.6	181.7	166.2	156.7	154.9
67.5°	161.7	154.4	142.2	137.6	136.7
70°	138.1	133.1	122.6	121.3	121.3
72.5°	116.7	112.6	104.9	105.8	107.2
75°	97.6	94.9	90.4	92.2	94.9
77.5°	81.3	78.6	75.8	78.6	80.4
80°	65.9	63.1	62.7	64.9	66.3
82.5°	49.5	47.2	47.7	51.3	52.7
85°	34.5	33.2	32.2	36.3	36.8
87.5°	17.7	16.8	16.4	19.5	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)