

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: P290901

Luminaire Tested: **14GR-LD5-24-F125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290901  
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-LD5-24-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: 2265.0 lumens  
Efficiency: N/A  
Efficacy: 120.6 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

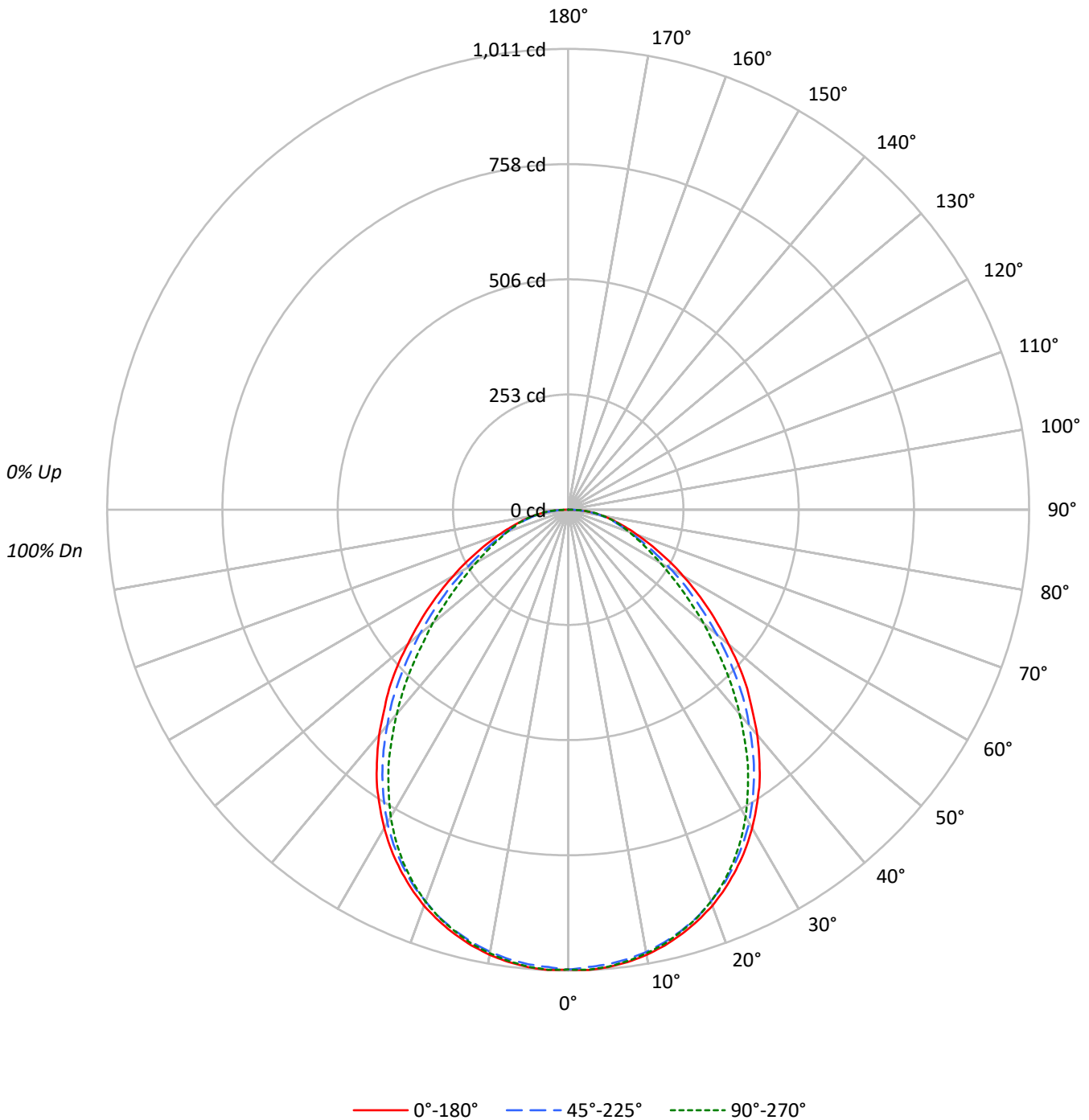
Input Watts (W): 18.786  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2715	2715	2715
5°	2721	2704	2719
10°	2709	2692	2701
15°	2685	2664	2669
20°	2647	2619	2620
25°	2587	2556	2538
30°	2508	2465	2418
35°	2405	2335	2258
40°	2265	2168	2054
45°	2112	1985	1837
50°	1921	1780	1623
55°	1749	1579	1414
60°	1568	1391	1256
65°	1398	1239	1154
70°	1271	1129	1116
75°	1188	1100	1155
80°	1195	1137	1203
85°	1247	1164	1331



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.4	4.2
10°-20°	270.5	11.9
20°-30°	396.6	17.5
30°-40°	442.6	19.5
40°-50°	400.8	17.7
50°-60°	302.6	13.4
60°-70°	197.8	8.7
70°-80°	116.2	5.1
80°-90°	42.5	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°	762.5	33.7
0°-40°	1205.1	53.2
0°-60°	1908.5	84.3
0°-90°	2265.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2265.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1009	1009	1009	1009	1009	
5°	1007	1005	1001	1007	1006	96
15°	964	962	956	962	958	272
25°	871	868	861	859	855	401
35°	732	726	711	695	687	456
45°	555	546	522	493	483	426
55°	373	364	336	310	301	333
65°	220	213	195	183	181	220
75°	114	111	106	108	111	123
85°	40	39	38	42	43	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1009.0	1009.0	1009.0	1009.0	1009.0
2.5°	1010.6	1009.0	1004.3	1010.6	1010.1
5°	1007.4	1005.3	1001.1	1006.9	1006.4
7.5°	1001.1	998.9	994.7	1000.0	998.9
10°	991.5	989.4	985.1	991.0	988.3
12.5°	979.3	977.1	972.4	977.7	975.6
15°	963.9	962.3	956.4	961.7	958.0
17.5°	945.2	942.6	938.3	941.5	938.9
20°	924.5	921.3	914.4	917.6	914.9
22.5°	899.5	895.3	890.5	890.5	886.8
25°	871.3	868.2	860.7	859.1	854.9
27.5°	841.0	838.4	828.8	826.2	818.7
30°	807.0	803.3	793.2	784.7	778.3
32.5°	769.3	766.6	752.8	741.6	732.6
35°	732.1	725.7	710.8	694.8	687.4
37.5°	688.5	683.7	665.1	645.4	635.3
40°	644.9	639.0	617.2	595.4	584.8
42.5°	597.6	592.2	571.5	545.5	534.3
45°	555.0	546.5	521.5	493.4	482.7
47.5°	508.2	499.2	472.6	442.9	430.6
50°	458.8	453.0	425.3	396.6	387.6
52.5°	414.7	405.6	379.6	351.4	341.8
55°	372.7	364.2	336.5	309.9	301.4
57.5°	330.7	321.1	297.2	273.3	264.8
60°	291.3	281.8	258.4	238.7	233.4
62.5°	255.7	245.1	224.3	208.9	205.2
65°	219.6	212.7	194.6	183.4	181.3
67.5°	189.3	180.8	166.4	161.1	160.0
70°	161.6	155.8	143.5	141.9	141.9
72.5°	136.6	131.8	122.8	123.9	125.5
75°	114.3	111.1	105.8	107.9	111.1
77.5°	95.2	92.0	88.8	92.0	94.1
80°	77.1	73.9	73.4	76.0	77.6
82.5°	57.9	55.3	55.8	60.1	61.7
85°	40.4	38.8	37.7	42.5	43.1
87.5°	20.7	19.7	19.1	22.9	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)