

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: P290933

Luminaire Tested: **14GR-LD5-40-F125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290933  
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-LD5-40-F125-UNV-L92765-W2A1-U-3500K  
Description: GRLED 1x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3499.0 lumens  
Efficiency: N/A  
Efficacy: 103.6 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

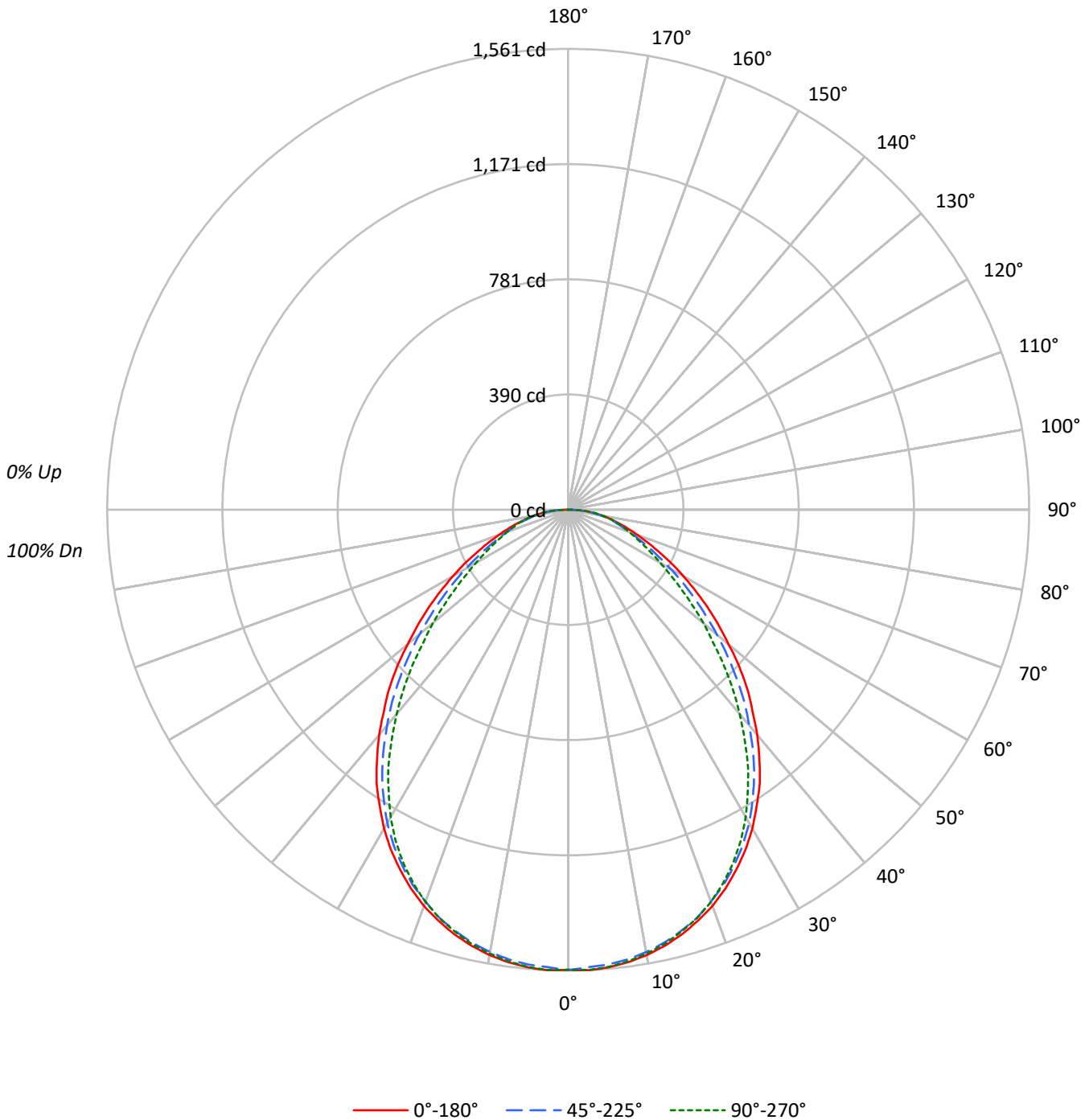
Input Watts (W): 33.759  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4195	4195	4195
5°	4204	4177	4200
10°	4185	4158	4172
15°	4148	4116	4123
20°	4090	4045	4048
25°	3997	3948	3921
30°	3874	3807	3736
35°	3715	3607	3488
40°	3499	3349	3173
45°	3263	3066	2838
50°	2967	2750	2506
55°	2701	2439	2185
60°	2422	2148	1940
65°	2160	1914	1784
70°	1965	1744	1725
75°	1836	1699	1784
80°	1846	1756	1858
85°	1927	1800	2053



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.4	4.2
10°-20°	417.9	11.9
20°-30°	612.7	17.5
30°-40°	683.8	19.5
40°-50°	619.1	17.7
50°-60°	467.5	13.4
60°-70°	305.6	8.7
70°-80°	179.5	5.1
80°-90°	65.7	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°	1177.9	33.7
0°-40°	1861.7	53.2
0°-60°	2948.3	84.3
0°-90°	3499.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3499.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1559	1559	1559	1559	1559	
5°	1556	1553	1546	1556	1555	148
15°	1489	1486	1478	1486	1480	420
25°	1346	1341	1330	1327	1321	619
35°	1131	1121	1098	1073	1062	704
45°	857	844	806	762	746	659
55°	576	563	520	479	466	515
65°	339	328	301	283	280	340
75°	177	172	163	167	172	190
85°	62	60	58	66	66	66
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1558.8	1558.8	1558.8	1558.8	1558.8
2.5°	1561.2	1558.8	1551.4	1561.2	1560.4
5°	1556.3	1553.0	1546.5	1555.5	1554.7
7.5°	1546.5	1543.2	1536.6	1544.8	1543.2
10°	1531.7	1528.4	1521.8	1530.9	1526.8
12.5°	1512.8	1509.5	1502.1	1510.3	1507.0
15°	1489.0	1486.5	1477.5	1485.7	1479.9
17.5°	1460.2	1456.1	1449.6	1454.5	1450.4
20°	1428.2	1423.3	1412.6	1417.5	1413.4
22.5°	1389.6	1383.0	1375.6	1375.6	1369.9
25°	1346.1	1341.1	1329.6	1327.2	1320.6
27.5°	1299.3	1295.2	1280.4	1276.3	1264.8
30°	1246.7	1240.9	1225.3	1212.2	1202.3
32.5°	1188.4	1184.3	1162.9	1145.7	1131.7
35°	1130.9	1121.0	1098.0	1073.4	1061.9
37.5°	1063.6	1056.2	1027.4	997.0	981.4
40°	996.2	987.2	953.5	919.8	903.4
42.5°	923.1	914.9	882.9	842.6	825.4
45°	857.4	844.3	805.7	762.1	745.7
47.5°	785.1	771.2	730.1	684.1	665.2
50°	708.8	699.7	657.0	612.7	598.7
52.5°	640.6	626.6	586.4	542.9	528.1
55°	575.7	562.6	519.9	478.8	465.7
57.5°	510.8	496.1	459.1	422.1	409.0
60°	450.1	435.3	399.1	368.8	360.5
62.5°	395.0	378.6	346.6	322.8	317.0
65°	339.2	328.5	300.6	283.3	280.1
67.5°	292.4	279.2	257.1	248.8	247.2
70°	249.7	240.6	221.7	219.3	219.3
72.5°	211.1	203.7	189.7	191.4	193.8
75°	176.6	171.6	163.4	166.7	171.6
77.5°	147.0	142.1	137.2	142.1	145.4
80°	119.1	114.2	113.3	117.4	119.9
82.5°	89.5	85.4	86.2	92.8	95.3
85°	62.4	60.0	58.3	65.7	66.5
87.5°	32.0	30.4	29.6	35.3	33.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)