

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: P290932

Luminaire Tested: **14GR-LD5-40-F125-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290932  
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-3000K  
Description: GRLED 1x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3333.0 lumens  
Efficiency: N/A  
Efficacy: 99.8 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

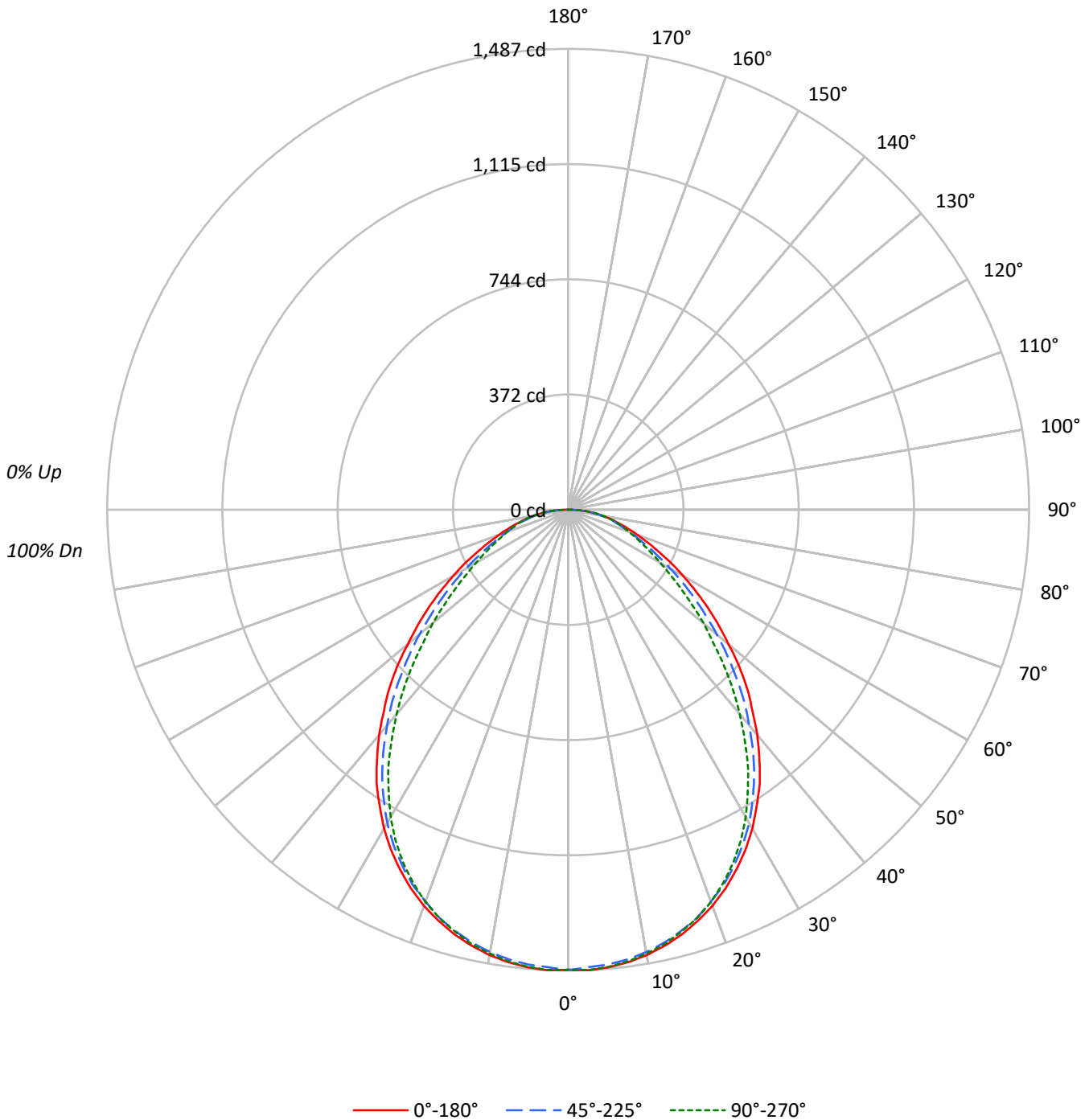
Input Watts (W): 33.387  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3996	3996	3996
5°	4005	3979	4000
10°	3987	3961	3974
15°	3951	3921	3927
20°	3896	3853	3856
25°	3807	3761	3735
30°	3690	3627	3559
35°	3539	3436	3323
40°	3333	3191	3023
45°	3108	2920	2703
50°	2826	2620	2388
55°	2573	2323	2081
60°	2307	2046	1848
65°	2057	1823	1699
70°	1871	1662	1644
75°	1749	1619	1700
80°	1757	1674	1770
85°	1837	1714	1958



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.4	4.2
10°-20°	398.0	11.9
20°-30°	583.6	17.5
30°-40°	651.4	19.5
40°-50°	589.7	17.7
50°-60°	445.3	13.4
60°-70°	291.1	8.7
70°-80°	170.9	5.1
80°-90°	62.6	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°	1122.0	33.7
0°-40°	1773.4	53.2
0°-60°	2808.4	84.3
0°-90°	3333.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3333.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1485	1485	1485	1485	1485	
5°	1482	1479	1473	1482	1481	141
15°	1418	1416	1407	1415	1410	400
25°	1282	1278	1267	1264	1258	590
35°	1077	1068	1046	1022	1012	671
45°	817	804	767	726	710	628
55°	548	536	495	456	444	491
65°	323	313	286	270	267	324
75°	168	164	156	159	164	181
85°	60	57	56	63	63	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1484.8	1484.8	1484.8	1484.8	1484.8
2.5°	1487.2	1484.8	1477.8	1487.2	1486.4
5°	1482.5	1479.4	1473.1	1481.7	1480.9
7.5°	1473.1	1470.0	1463.7	1471.5	1470.0
10°	1459.0	1455.9	1449.6	1458.2	1454.3
12.5°	1441.0	1437.9	1430.9	1438.7	1435.5
15°	1418.3	1416.0	1407.4	1415.2	1409.7
17.5°	1391.0	1387.0	1380.8	1385.5	1381.6
20°	1360.4	1355.7	1345.6	1350.3	1346.4
22.5°	1323.7	1317.4	1310.4	1310.4	1304.9
25°	1282.2	1277.5	1266.6	1264.2	1258.0
27.5°	1237.6	1233.7	1219.6	1215.7	1204.8
30°	1187.6	1182.1	1167.2	1154.7	1145.3
32.5°	1132.0	1128.1	1107.8	1091.3	1078.0
35°	1077.2	1067.9	1046.0	1022.5	1011.5
37.5°	1013.1	1006.1	978.7	949.7	934.9
40°	948.9	940.3	908.3	876.2	860.5
42.5°	879.3	871.5	841.0	802.7	786.2
45°	816.7	804.2	767.4	726.0	710.3
47.5°	747.9	734.6	695.5	651.7	633.7
50°	675.1	666.5	625.9	583.6	570.3
52.5°	610.2	596.9	558.6	517.1	503.0
55°	548.4	535.9	495.2	456.1	443.6
57.5°	486.6	472.5	437.3	402.1	389.6
60°	428.7	414.6	380.2	351.3	343.4
62.5°	376.3	360.6	330.1	307.4	302.0
65°	323.1	312.9	286.3	269.9	266.8
67.5°	278.5	266.0	244.9	237.0	235.5
70°	237.8	229.2	211.2	208.9	208.9
72.5°	201.1	194.0	180.7	182.3	184.6
75°	168.2	163.5	155.7	158.8	163.5
77.5°	140.0	135.3	130.6	135.3	138.5
80°	113.4	108.7	108.0	111.9	114.2
82.5°	85.3	81.4	82.1	88.4	90.7
85°	59.5	57.1	55.5	62.6	63.4
87.5°	30.5	28.9	28.2	33.6	32.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)