

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: P290776

Luminaire Tested: **14GR-LD5-36-F125-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290776
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-LD5-36-F125-UNV-L83050-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3874.0 lumens
Efficiency: N/A
Efficacy: 126.2 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

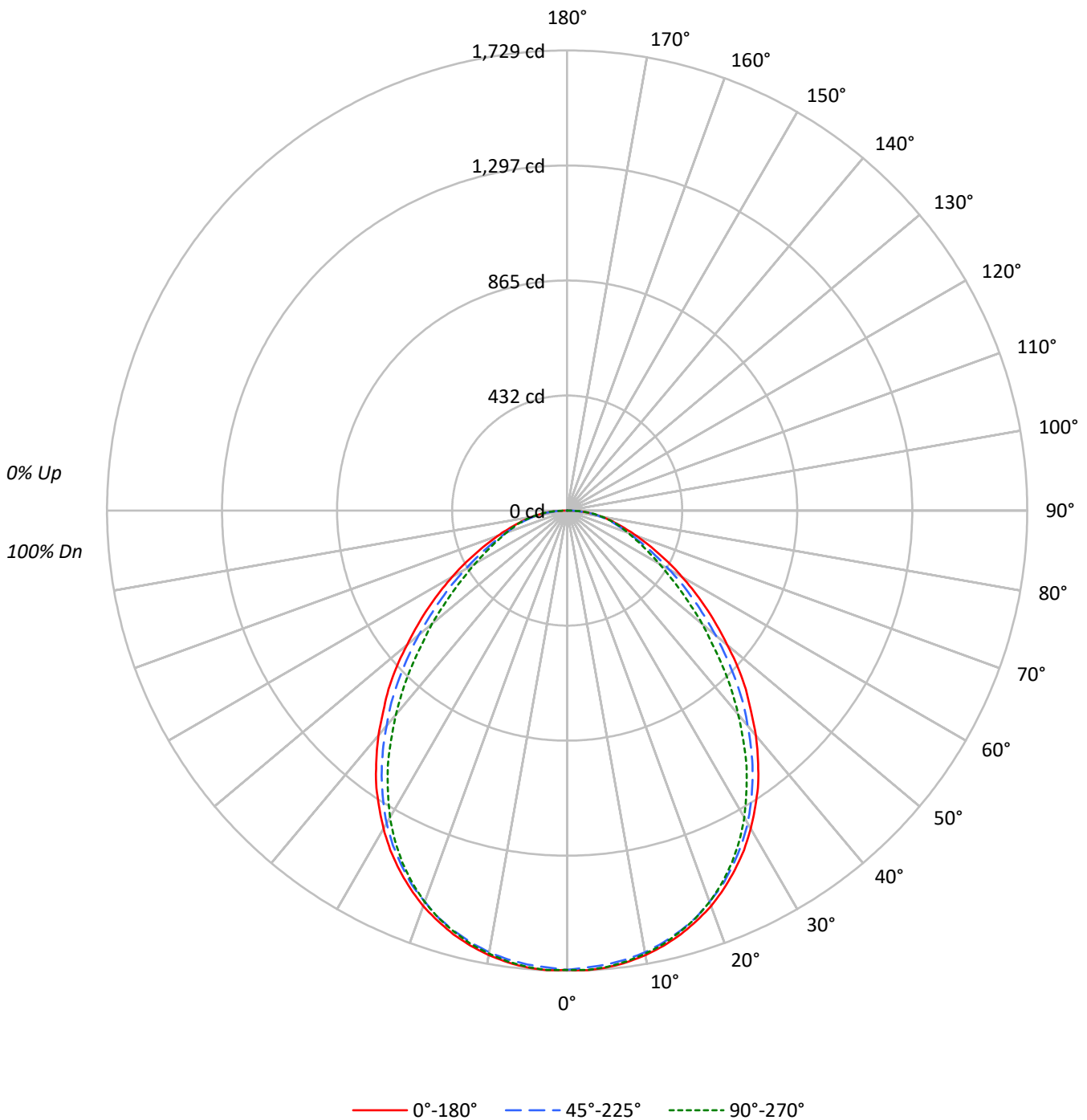
Input Watts (W): 30.69
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4644	4644	4644
5°	4655	4625	4650
10°	4634	4604	4619
15°	4593	4557	4565
20°	4528	4479	4481
25°	4425	4371	4341
30°	4289	4216	4136
35°	4113	3994	3862
40°	3875	3708	3514
45°	3613	3395	3142
50°	3285	3045	2775
55°	2990	2700	2419
60°	2682	2378	2148
65°	2391	2119	1975
70°	2175	1932	1910
75°	2033	1881	1975
80°	2042	1945	2058
85°	2133	1995	2276



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.2	4.2
10°-20°	462.6	11.9
20°-30°	678.3	17.5
30°-40°	757.1	19.5
40°-50°	685.4	17.7
50°-60°	517.5	13.4
60°-70°	338.3	8.7
70°-80°	198.7	5.1
80°-90°	72.7	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°	1304.2	33.7
0°-40°	2061.2	53.2
0°-60°	3264.2	84.3
0°-90°	3874.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3874.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1726	1726	1726	1726	1726	
5°	1723	1720	1712	1722	1721	164
15°	1649	1646	1636	1645	1639	465
25°	1490	1485	1472	1469	1462	686
35°	1252	1241	1216	1188	1176	780
45°	949	935	892	844	826	729
55°	637	623	576	530	516	570
65°	376	364	333	314	310	377
75°	196	190	181	185	190	210
85°	69	66	65	73	74	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1725.8	1725.8	1725.8	1725.8	1725.8
2.5°	1728.6	1725.8	1717.7	1728.6	1727.7
5°	1723.1	1719.5	1712.2	1722.2	1721.3
7.5°	1712.2	1708.6	1701.3	1710.4	1708.6
10°	1695.8	1692.2	1684.9	1694.9	1690.4
12.5°	1674.9	1671.3	1663.1	1672.2	1668.6
15°	1648.6	1645.8	1635.8	1644.9	1638.6
17.5°	1616.7	1612.2	1604.9	1610.4	1605.8
20°	1581.3	1575.8	1564.0	1569.4	1564.9
22.5°	1538.5	1531.3	1523.1	1523.1	1516.7
25°	1490.3	1484.9	1472.1	1469.4	1462.1
27.5°	1438.5	1434.0	1417.6	1413.0	1400.3
30°	1380.3	1373.9	1356.7	1342.1	1331.2
32.5°	1315.8	1311.2	1287.6	1268.5	1253.0
35°	1252.1	1241.2	1215.7	1188.4	1175.7
37.5°	1177.5	1169.4	1137.5	1103.9	1086.6
40°	1103.0	1093.0	1055.7	1018.4	1000.2
42.5°	1022.0	1013.0	977.5	932.9	913.8
45°	949.3	934.8	892.0	843.8	825.6
47.5°	869.3	853.8	808.4	757.4	736.5
50°	784.7	774.7	727.4	678.3	662.9
52.5°	709.3	693.8	649.2	601.0	584.7
55°	637.4	622.9	575.6	530.1	515.6
57.5°	565.6	549.2	508.3	467.4	452.8
60°	498.3	481.9	441.9	408.3	399.2
62.5°	437.4	419.2	383.7	357.4	351.0
65°	375.5	363.7	332.8	313.7	310.1
67.5°	323.7	309.2	284.6	275.5	273.7
70°	276.4	266.4	245.5	242.8	242.8
72.5°	233.7	225.5	210.0	211.9	214.6
75°	195.5	190.0	180.9	184.6	190.0
77.5°	162.8	157.3	151.9	157.3	160.9
80°	131.8	126.4	125.5	130.0	132.8
82.5°	99.1	94.6	95.5	102.8	105.5
85°	69.1	66.4	64.6	72.7	73.7
87.5°	35.5	33.6	32.7	39.1	37.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)