

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: P290634

Luminaire Tested: **14GR-LD5-36-F1-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290634
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-36-F1-UNV-L82765-W2A1-U-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3801.0 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

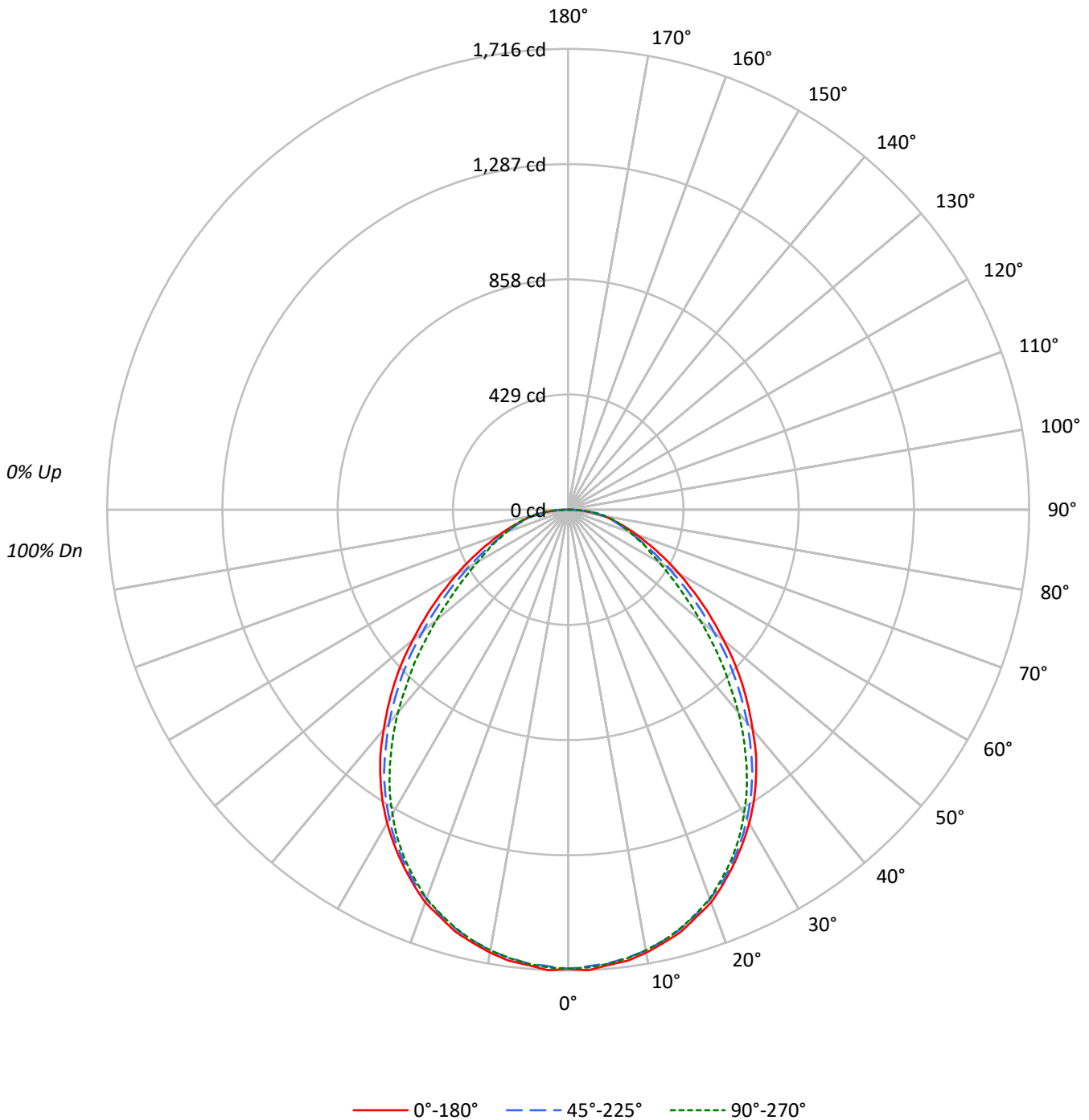
Input Watts (W): 30.132
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	87	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	57	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	61	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	52	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	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4600	4600	4600
5°	4599	4582	4585
10°	4576	4554	4552
15°	4529	4503	4495
20°	4456	4419	4414
25°	4328	4299	4268
30°	4188	4137	4066
35°	4004	3927	3798
40°	3749	3645	3465
45°	3481	3326	3084
50°	3159	2962	2684
55°	2857	2616	2346
60°	2565	2293	2091
65°	2302	2047	2003
70°	2125	1906	1926
75°	2030	1911	2020
80°	2052	2039	2201
85°	2124	2100	2340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.4	4.2
10°-20°	456.2	12.0
20°-30°	666.2	17.5
30°-40°	742.4	19.5
40°-50°	668.9	17.6
50°-60°	500.0	13.2
60°-70°	329.8	8.7
70°-80°	201.3	5.3
80°-90°	74.7	2.0
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°	1283.8	33.8
0°-40°	2026.2	53.3
0°-60°	3195.1	84.1
0°-90°	3801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3801.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1709	1709	1709	1709	1709	
5°	1702	1701	1696	1705	1697	162
15°	1626	1620	1616	1626	1614	458
25°	1458	1452	1448	1451	1438	671
35°	1219	1208	1195	1174	1156	760
45°	915	905	874	834	810	704
55°	609	599	558	511	500	545
65°	362	350	322	308	314	362
75°	195	192	184	190	194	208
85°	69	66	68	75	76	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1709.4	1709.4	1709.4	1709.4	1709.4
2.5°	1716.4	1708.5	1701.6	1712.0	1705.9
5°	1702.4	1700.7	1696.3	1705.0	1697.2
7.5°	1693.7	1687.6	1682.4	1692.9	1684.1
10°	1674.6	1671.1	1666.7	1675.4	1665.8
12.5°	1651.0	1647.5	1643.2	1653.6	1643.2
15°	1625.8	1619.7	1616.2	1625.8	1613.6
17.5°	1589.2	1586.6	1581.3	1590.9	1578.7
20°	1556.1	1546.5	1543.0	1550.0	1541.3
22.5°	1508.1	1501.2	1500.3	1504.7	1489.8
25°	1457.6	1452.4	1448.0	1450.6	1437.6
27.5°	1404.5	1397.5	1392.3	1391.4	1377.5
30°	1347.8	1339.1	1331.3	1324.3	1308.6
32.5°	1286.0	1275.5	1265.1	1253.7	1237.2
35°	1218.9	1208.4	1195.4	1174.5	1156.2
37.5°	1148.3	1136.1	1115.2	1090.8	1072.5
40°	1067.3	1061.2	1037.7	1006.3	986.3
42.5°	991.5	984.5	954.9	920.0	893.0
45°	914.8	905.2	873.9	833.8	810.3
47.5°	836.4	826.8	792.0	742.3	721.4
50°	754.5	749.3	707.5	662.2	641.2
52.5°	679.6	673.5	630.8	585.5	566.3
55°	609.0	599.4	557.6	511.4	500.1
57.5°	538.4	528.0	488.8	449.6	441.7
60°	476.6	463.5	426.0	395.6	388.6
62.5°	418.2	403.4	372.0	348.5	345.0
65°	361.6	350.2	321.5	308.4	314.5
67.5°	312.8	301.5	280.5	275.3	273.6
70°	270.1	259.6	242.2	244.0	244.8
72.5°	230.9	224.8	211.7	216.1	219.6
75°	195.2	191.7	183.8	189.9	194.3
77.5°	162.9	160.3	156.8	162.1	169.0
80°	132.4	130.7	131.6	135.0	142.0
82.5°	101.9	98.5	101.1	108.0	112.4
85°	68.8	66.2	68.0	74.9	75.8
87.5°	32.2	32.2	31.4	36.6	36.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)