

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: P290641

Luminaire Tested: **14GR-LD5-40-F1-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290641
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-LD5-40-F1-UNV-L82765-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4155.0 lumens
Efficiency: N/A
Efficacy: 121.1 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

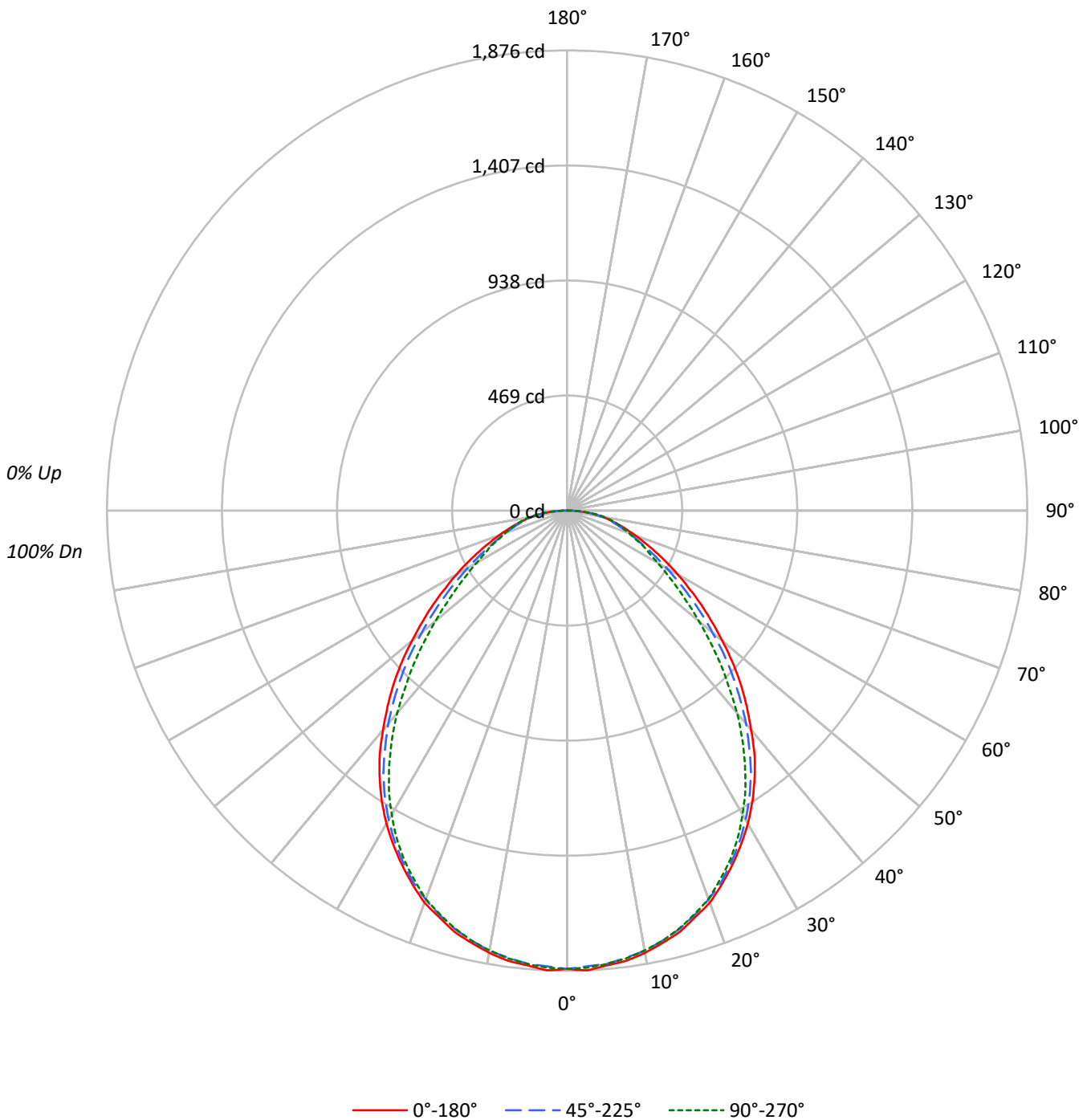
Input Watts (W): 34.317
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5028	5028	5028
5°	5027	5009	5012
10°	5002	4978	4976
15°	4951	4922	4914
20°	4871	4830	4825
25°	4731	4700	4666
30°	4578	4522	4445
35°	4377	4293	4152
40°	4098	3985	3787
45°	3806	3636	3371
50°	3453	3237	2935
55°	3123	2860	2565
60°	2804	2506	2286
65°	2516	2238	2189
70°	2323	2083	2105
75°	2218	2090	2208
80°	2244	2228	2405
85°	2322	2294	2560



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.4	4.2
10°-20°	498.7	12.0
20°-30°	728.3	17.5
30°-40°	811.5	19.5
40°-50°	731.2	17.6
50°-60°	546.6	13.2
60°-70°	360.6	8.7
70°-80°	220.1	5.3
80°-90°	81.7	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°	1403.4	33.8
0°-40°	2214.9	53.3
0°-60°	3492.7	84.1
0°-90°	4155.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4155.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1869	1869	1869	1869	1869	
5°	1861	1859	1854	1864	1855	177
15°	1777	1770	1767	1777	1764	500
25°	1593	1588	1583	1586	1572	733
35°	1332	1321	1307	1284	1264	831
45°	1000	990	955	911	886	770
55°	666	655	610	559	547	596
65°	395	383	351	337	344	396
75°	213	210	201	208	212	228
85°	75	72	74	82	83	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1868.6	1868.6	1868.6	1868.6	1868.6
2.5°	1876.2	1867.7	1860.0	1871.5	1864.8
5°	1861.0	1859.1	1854.3	1863.8	1855.3
7.5°	1851.5	1844.8	1839.1	1850.5	1841.0
10°	1830.5	1826.7	1821.9	1831.5	1821.0
12.5°	1804.8	1801.0	1796.2	1807.7	1796.2
15°	1777.2	1770.5	1766.7	1777.2	1763.8
17.5°	1737.2	1734.3	1728.6	1739.1	1725.7
20°	1701.0	1690.5	1686.7	1694.3	1684.8
22.5°	1648.6	1641.0	1640.0	1644.8	1628.6
25°	1593.4	1587.7	1582.9	1585.7	1571.5
27.5°	1535.3	1527.6	1521.9	1521.0	1505.7
30°	1473.4	1463.8	1455.3	1447.6	1430.5
32.5°	1405.7	1394.3	1382.9	1370.5	1352.4
35°	1332.4	1321.0	1306.7	1283.8	1263.8
37.5°	1255.3	1241.9	1219.1	1192.4	1172.4
40°	1166.7	1160.0	1134.3	1100.0	1078.1
42.5°	1083.8	1076.2	1043.8	1005.7	976.2
45°	1000.0	989.5	955.3	911.4	885.7
47.5°	914.3	903.8	865.7	811.4	788.6
50°	824.8	819.1	773.3	723.8	701.0
52.5°	742.9	736.2	689.5	640.0	619.1
55°	665.7	655.3	609.5	559.1	546.7
57.5°	588.6	577.2	534.3	491.4	482.9
60°	521.0	506.7	465.7	432.4	424.8
62.5°	457.2	441.0	406.7	381.0	377.2
65°	395.2	382.9	351.4	337.1	343.8
67.5°	341.9	329.5	306.7	301.0	299.1
70°	295.2	283.8	264.8	266.7	267.6
72.5°	252.4	245.7	231.4	236.2	240.0
75°	213.3	209.5	201.0	207.6	212.4
77.5°	178.1	175.2	171.4	177.1	184.8
80°	144.8	142.9	143.8	147.6	155.2
82.5°	111.4	107.6	110.5	118.1	122.9
85°	75.2	72.4	74.3	81.9	82.9
87.5°	35.2	35.2	34.3	40.0	40.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)