

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: P290642

Luminaire Tested: **14GR-LD5-40-F1-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290642
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-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4211.0 lumens
Efficiency: N/A
Efficacy: 122.4 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

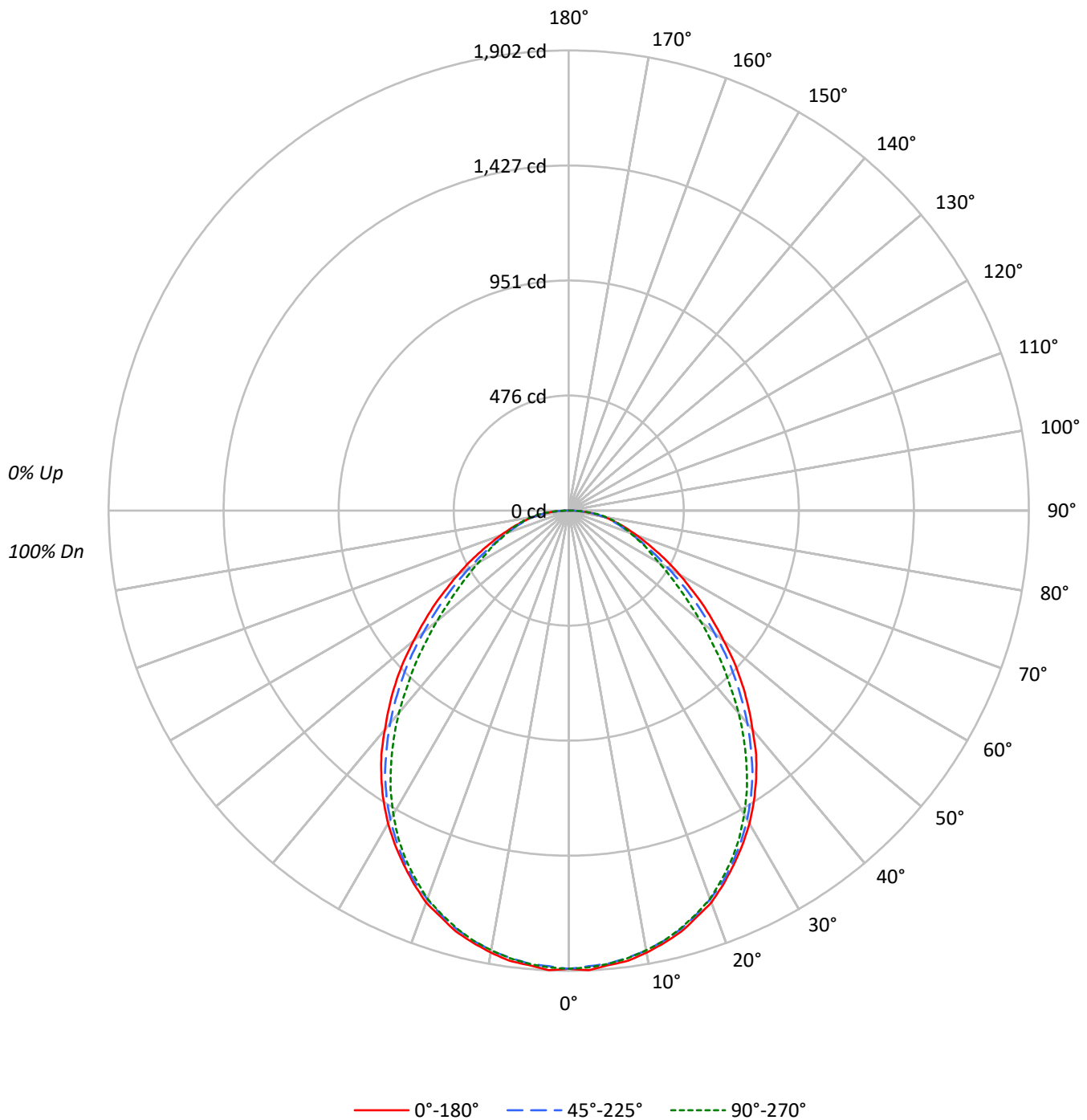
Input Watts (W): 34.41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	105	101	98	107	103	99	96		99	96	93		95	92	90		91	89	87
2	101	93	87	81	98	91	85	80		88	83	78		84	80	77		81	78	75
3	92	83	75	69	90	81	74	68		78	72	67		75	70	66		73	69	65
4	85	74	66	59	83	73	65	59		70	64	58		68	62	57		66	61	57
5	79	67	58	52	77	66	58	52		64	57	51		62	55	51		60	54	50
6	73	61	52	46	71	60	52	46		58	51	45		56	50	45		55	49	45
7	68	55	47	41	66	54	47	41		53	46	41		52	45	40		50	44	40
8	64	51	43	37	62	50	42	37		49	42	37		47	41	36		46	41	36
9	60	47	39	34	58	46	39	33		45	38	33		44	38	33		43	37	33
10	56	43	36	31	55	43	35	31		42	35	30		41	35	30		40	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5096	5096	5096
5°	5095	5076	5079
10°	5069	5046	5043
15°	5018	4988	4980
20°	4937	4895	4890
25°	4795	4763	4729
30°	4640	4583	4505
35°	4436	4350	4208
40°	4154	4038	3838
45°	3857	3684	3416
50°	3499	3281	2974
55°	3165	2898	2599
60°	2842	2540	2317
65°	2551	2268	2219
70°	2354	2111	2134
75°	2248	2118	2237
80°	2273	2259	2438
85°	2356	2325	2594



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.8	4.2
10°-20°	505.4	12.0
20°-30°	738.1	17.5
30°-40°	822.5	19.5
40°-50°	741.1	17.6
50°-60°	553.9	13.2
60°-70°	365.4	8.7
70°-80°	223.1	5.3
80°-90°	82.8	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°	1422.3	33.8
0°-40°	2244.8	53.3
0°-60°	3539.8	84.1
0°-90°	4211.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4211.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1894	1894	1894	1894	1894	
5°	1886	1884	1879	1889	1880	179
15°	1801	1794	1790	1801	1788	507
25°	1615	1609	1604	1607	1593	743
35°	1350	1339	1324	1301	1281	842
45°	1014	1003	968	924	898	780
55°	675	664	618	567	554	604
65°	401	388	356	342	348	402
75°	216	212	204	210	215	231
85°	76	73	75	83	84	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1893.8	1893.8	1893.8	1893.8	1893.8
2.5°	1901.5	1892.8	1885.1	1896.7	1889.9
5°	1886.1	1884.1	1879.3	1889.0	1880.3
7.5°	1876.4	1869.7	1863.9	1875.5	1865.8
10°	1855.2	1851.3	1846.5	1856.1	1845.5
12.5°	1829.1	1825.3	1820.4	1832.0	1820.4
15°	1801.1	1794.4	1790.5	1801.1	1787.6
17.5°	1760.6	1757.7	1751.9	1762.5	1749.0
20°	1723.9	1713.3	1709.4	1717.2	1707.5
22.5°	1670.8	1663.1	1662.1	1667.0	1650.6
25°	1614.8	1609.0	1604.2	1607.1	1592.6
27.5°	1556.0	1548.2	1542.4	1541.5	1526.0
30°	1493.2	1483.6	1474.9	1467.2	1449.8
32.5°	1424.7	1413.1	1401.5	1389.0	1370.6
35°	1350.4	1338.8	1324.3	1301.1	1280.9
37.5°	1272.2	1258.7	1235.5	1208.5	1188.2
40°	1182.4	1175.7	1149.6	1114.8	1092.6
42.5°	1098.4	1090.7	1057.9	1019.3	989.4
45°	1013.5	1002.9	968.1	923.7	897.7
47.5°	926.6	916.0	877.4	822.4	799.2
50°	835.9	830.1	783.8	733.6	710.4
52.5°	752.9	746.1	698.8	648.6	627.4
55°	674.7	664.1	617.8	566.6	554.0
57.5°	596.5	584.9	541.5	498.1	489.4
60°	528.0	513.5	472.0	438.2	430.5
62.5°	463.3	446.9	412.2	386.1	382.2
65°	400.6	388.0	356.2	341.7	348.5
67.5°	346.5	334.0	310.8	305.0	303.1
70°	299.2	287.6	268.3	270.3	271.2
72.5°	255.8	249.0	234.6	239.4	243.2
75°	216.2	212.4	203.7	210.4	215.2
77.5°	180.5	177.6	173.7	179.5	187.3
80°	146.7	144.8	145.8	149.6	157.3
82.5°	112.9	109.1	112.0	119.7	124.5
85°	76.3	73.4	75.3	83.0	84.0
87.5°	35.7	35.7	34.7	40.5	40.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)