

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: P290737

Luminaire Tested: **14GR-LD5-40-F1-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290737
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-L92765-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3499.0 lumens
Efficiency: N/A
Efficacy: 103.6 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

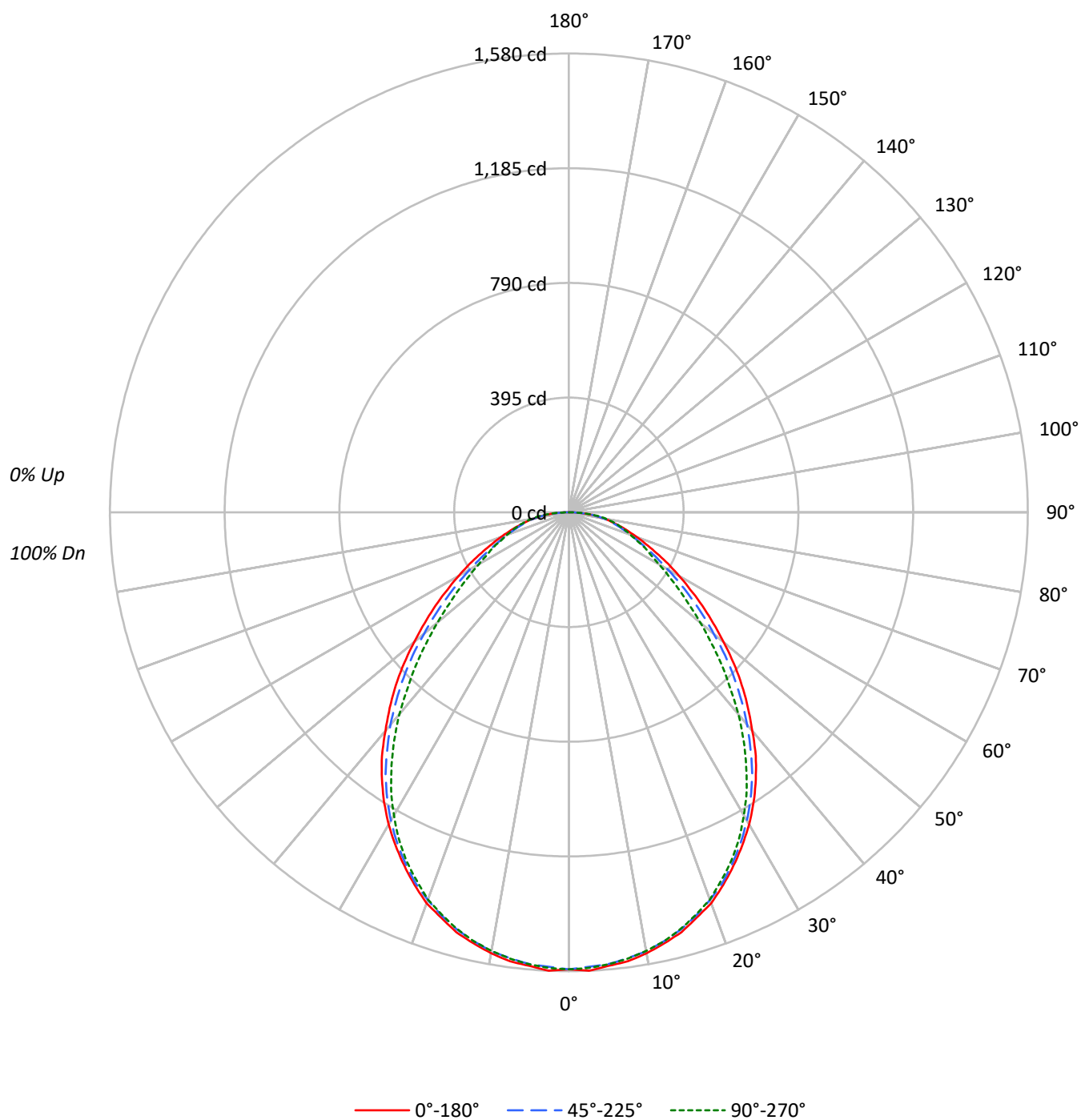
Input Watts (W): 33.759
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4235	4235	4235
5°	4233	4218	4220
10°	4212	4192	4190
15°	4169	4145	4138
20°	4102	4068	4063
25°	3984	3958	3929
30°	3855	3808	3743
35°	3686	3615	3496
40°	3451	3355	3189
45°	3205	3061	2839
50°	2908	2727	2471
55°	2630	2408	2160
60°	2361	2111	1925
65°	2119	1885	1843
70°	1956	1755	1773
75°	1868	1759	1860
80°	1889	1877	2025
85°	1958	1933	2155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.6	4.2
10°-20°	420.0	12.0
20°-30°	613.3	17.5
30°-40°	683.4	19.5
40°-50°	615.7	17.6
50°-60°	460.3	13.2
60°-70°	303.6	8.7
70°-80°	185.3	5.3
80°-90°	68.8	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°	1181.8	33.8
0°-40°	1865.2	53.3
0°-60°	2941.2	84.1
0°-90°	3499.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3499.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1574	1574	1574	1574	1574	
5°	1567	1566	1562	1570	1562	149
15°	1497	1491	1488	1497	1485	421
25°	1342	1337	1333	1335	1323	618
35°	1122	1112	1100	1081	1064	700
45°	842	833	804	768	746	648
55°	561	552	513	471	460	502
65°	333	322	296	284	290	334
75°	180	176	169	175	179	192
85°	63	61	63	69	70	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1573.6	1573.6	1573.6	1573.6	1573.6
2.5°	1580.0	1572.8	1566.4	1576.0	1570.4
5°	1567.2	1565.6	1561.6	1569.6	1562.4
7.5°	1559.2	1553.5	1548.7	1558.4	1550.3
10°	1541.5	1538.3	1534.3	1542.3	1533.5
12.5°	1519.9	1516.6	1512.6	1522.3	1512.6
15°	1496.6	1491.0	1487.8	1496.6	1485.4
17.5°	1462.9	1460.5	1455.7	1464.5	1453.3
20°	1432.4	1423.6	1420.4	1426.8	1418.8
22.5°	1388.3	1381.9	1381.1	1385.1	1371.5
25°	1341.8	1337.0	1333.0	1335.4	1323.4
27.5°	1292.9	1286.5	1281.6	1280.8	1268.0
30°	1240.7	1232.7	1225.5	1219.1	1204.7
32.5°	1183.8	1174.2	1164.6	1154.1	1138.9
35°	1122.0	1112.4	1100.4	1081.1	1064.3
37.5°	1057.1	1045.9	1026.6	1004.1	987.3
40°	982.5	976.9	955.2	926.3	907.9
42.5°	912.7	906.3	879.0	846.9	822.1
45°	842.1	833.3	804.4	767.5	745.9
47.5°	770.0	761.1	729.0	683.3	664.1
50°	694.6	689.7	651.3	609.5	590.3
52.5°	625.6	620.0	580.7	539.0	521.3
55°	560.6	551.8	513.3	470.8	460.4
57.5°	495.7	486.0	449.9	413.8	406.6
60°	438.7	426.7	392.2	364.1	357.7
62.5°	385.0	371.3	342.5	320.8	317.6
65°	332.8	322.4	296.0	283.9	289.5
67.5°	287.9	277.5	258.3	253.4	251.8
70°	248.6	239.0	223.0	224.6	225.4
72.5°	212.5	206.9	194.9	198.9	202.1
75°	179.7	176.4	169.2	174.8	178.9
77.5°	150.0	147.6	144.4	149.2	155.6
80°	121.9	120.3	121.1	124.3	130.7
82.5°	93.8	90.6	93.0	99.5	103.5
85°	63.4	61.0	62.6	69.0	69.8
87.5°	29.7	29.7	28.9	33.7	33.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)