

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: P290745

Luminaire Tested: **14GR-LD5-43-F1-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290745
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-LD5-43-F1-UNV-L92765-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3555.0 lumens
Efficiency: N/A
Efficacy: 98.3 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

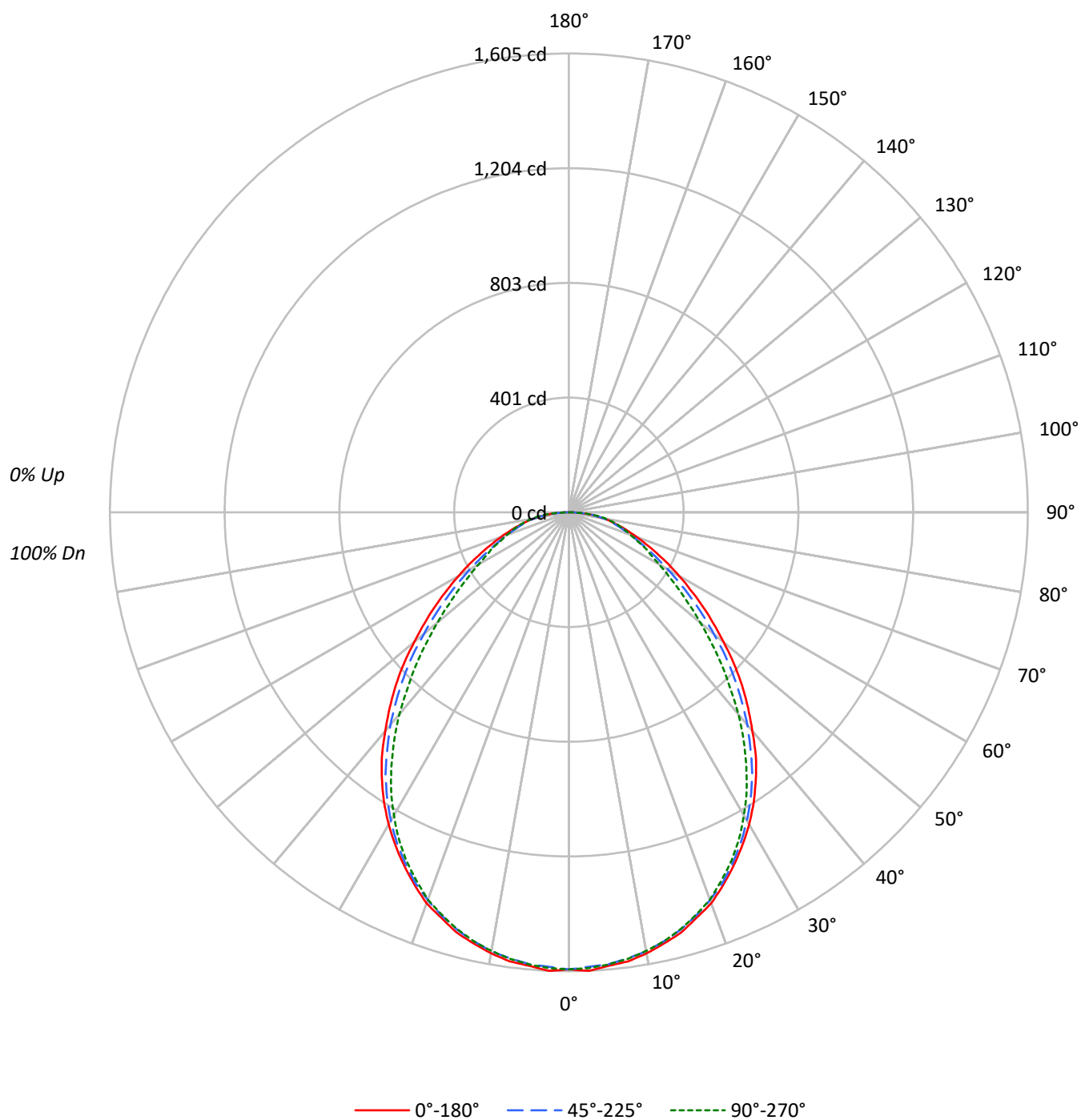
Input Watts (W): 36.177
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4302	4302	4302
5°	4301	4286	4288
10°	4280	4259	4257
15°	4236	4211	4204
20°	4168	4133	4128
25°	4048	4021	3992
30°	3917	3869	3803
35°	3745	3673	3552
40°	3507	3409	3240
45°	3256	3110	2884
50°	2954	2770	2511
55°	2672	2447	2194
60°	2399	2145	1956
65°	2153	1915	1873
70°	1987	1782	1802
75°	1897	1787	1889
80°	1920	1906	2058
85°	1988	1964	2189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.9	4.2
10°-20°	426.7	12.0
20°-30°	623.1	17.5
30°-40°	694.3	19.5
40°-50°	625.6	17.6
50°-60°	467.6	13.2
60°-70°	308.5	8.7
70°-80°	188.3	5.3
80°-90°	69.9	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°	1200.7	33.8
0°-40°	1895.1	53.3
0°-60°	2988.3	84.1
0°-90°	3555.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3555.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1599	1599	1599	1599	1599	
5°	1592	1591	1587	1595	1587	151
15°	1520	1515	1512	1520	1509	428
25°	1363	1358	1354	1357	1344	627
35°	1140	1130	1118	1098	1081	711
45°	856	847	817	780	758	659
55°	570	561	522	478	468	510
65°	338	328	301	288	294	339
75°	182	179	172	178	182	195
85°	64	62	64	70	71	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1598.8	1598.8	1598.8	1598.8	1598.8
2.5°	1605.3	1598.0	1591.4	1601.2	1595.5
5°	1592.3	1590.6	1586.6	1594.7	1587.4
7.5°	1584.1	1578.4	1573.5	1583.3	1575.1
10°	1566.2	1562.9	1558.8	1567.0	1558.0
12.5°	1544.2	1540.9	1536.8	1546.6	1536.8
15°	1520.5	1514.8	1511.6	1520.5	1509.1
17.5°	1486.3	1483.9	1479.0	1488.0	1476.5
20°	1455.4	1446.4	1443.1	1449.7	1441.5
22.5°	1410.5	1404.0	1403.2	1407.3	1393.4
25°	1363.3	1358.4	1354.3	1356.8	1344.5
27.5°	1313.6	1307.1	1302.2	1301.3	1288.3
30°	1260.6	1252.5	1245.1	1238.6	1223.9
32.5°	1202.7	1193.0	1183.2	1172.6	1157.1
35°	1140.0	1130.2	1118.0	1098.4	1081.3
37.5°	1074.0	1062.6	1043.0	1020.2	1003.1
40°	998.2	992.5	970.5	941.2	922.4
42.5°	927.3	920.8	893.1	860.5	835.2
45°	855.6	846.6	817.3	779.8	757.8
47.5°	782.3	773.3	740.7	694.3	674.7
50°	705.7	700.8	661.7	619.3	599.7
52.5°	635.6	629.9	590.0	547.6	529.7
55°	569.6	560.6	521.5	478.3	467.7
57.5°	503.6	493.8	457.1	420.5	413.1
60°	445.7	433.5	398.5	370.0	363.4
62.5°	391.1	377.3	347.9	325.9	322.7
65°	338.2	327.6	300.7	288.5	294.2
67.5°	292.5	281.9	262.4	257.5	255.9
70°	252.6	242.8	226.5	228.2	229.0
72.5°	215.9	210.2	198.0	202.1	205.3
75°	182.5	179.3	171.9	177.6	181.7
77.5°	152.4	149.9	146.7	151.6	158.1
80°	123.9	122.2	123.0	126.3	132.8
82.5°	95.3	92.1	94.5	101.0	105.1
85°	64.4	61.9	63.6	70.1	70.9
87.5°	30.2	30.2	29.3	34.2	34.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)