

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: P290590

Luminaire Tested: **14GR-LD5-43-F1-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290590
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-L83050-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: 4625.0 lumens
Efficiency: N/A
Efficacy: 120.7 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

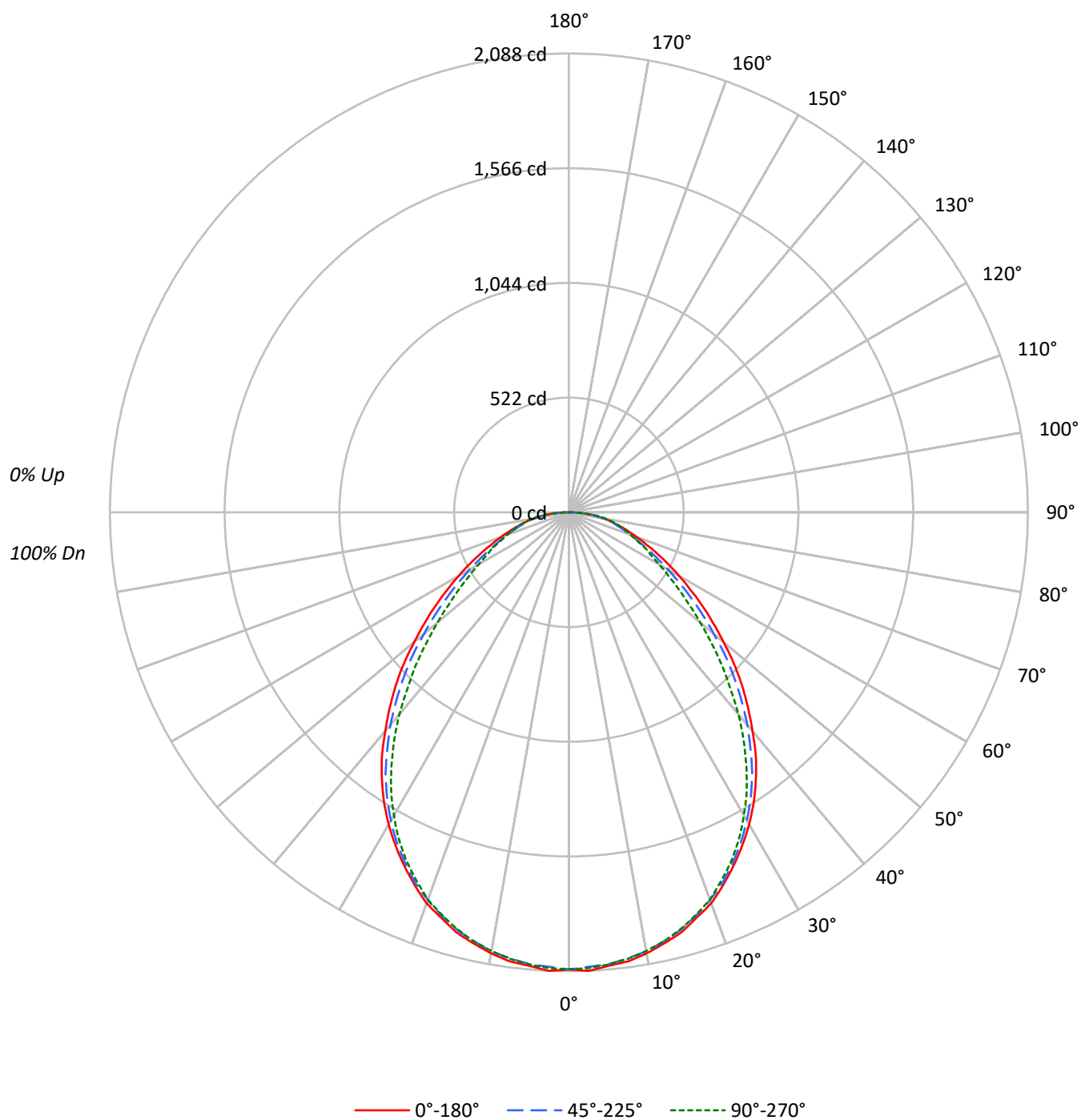
Input Watts (W): 38.316
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5597	5597	5597
5°	5596	5576	5578
10°	5568	5541	5539
15°	5511	5478	5470
20°	5422	5377	5371
25°	5266	5231	5194
30°	5096	5033	4948
35°	4872	4778	4621
40°	4562	4435	4216
45°	4236	4047	3752
50°	3844	3604	3267
55°	3476	3183	2855
60°	3121	2790	2545
65°	2802	2491	2437
70°	2585	2319	2344
75°	2469	2326	2458
80°	2497	2481	2678
85°	2587	2553	2847



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.4	4.2
10°-20°	555.1	12.0
20°-30°	810.7	17.5
30°-40°	903.3	19.5
40°-50°	813.9	17.6
50°-60°	608.4	13.2
60°-70°	401.3	8.7
70°-80°	245.0	5.3
80°-90°	90.9	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°	1562.1	33.8
0°-40°	2465.5	53.3
0°-60°	3887.8	84.1
0°-90°	4625.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4625.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2080	2080	2080	2080	2080	
5°	2072	2069	2064	2075	2065	197
15°	1978	1971	1966	1978	1963	557
25°	1774	1767	1762	1765	1749	816
35°	1483	1470	1454	1429	1407	925
45°	1113	1102	1063	1014	986	857
55°	741	729	678	622	608	664
65°	440	426	391	375	383	441
75°	238	233	224	231	236	254
85°	84	81	83	91	92	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2080.0	2080.0	2080.0	2080.0	2080.0
2.5°	2088.5	2078.9	2070.4	2083.2	2075.7
5°	2071.5	2069.4	2064.1	2074.7	2065.1
7.5°	2060.9	2053.5	2047.1	2059.8	2049.2
10°	2037.6	2033.3	2028.0	2038.6	2027.0
12.5°	2009.0	2004.7	1999.4	2012.1	1999.4
15°	1978.2	1970.8	1966.5	1978.2	1963.4
17.5°	1933.7	1930.5	1924.1	1935.8	1921.0
20°	1893.4	1881.7	1877.5	1886.0	1875.4
22.5°	1835.1	1826.6	1825.5	1830.8	1812.8
25°	1773.6	1767.2	1761.9	1765.1	1749.2
27.5°	1708.9	1700.5	1694.1	1693.0	1676.1
30°	1640.0	1629.4	1619.9	1611.4	1592.3
32.5°	1564.8	1552.0	1539.3	1525.5	1505.4
35°	1483.1	1470.4	1454.5	1429.1	1406.8
37.5°	1397.3	1382.4	1357.0	1327.3	1305.0
40°	1298.7	1291.2	1262.6	1224.5	1200.1
42.5°	1206.4	1197.9	1161.9	1119.5	1086.6
45°	1113.1	1101.5	1063.3	1014.5	985.9
47.5°	1017.7	1006.1	963.7	903.2	877.8
50°	918.1	911.7	860.8	805.7	780.3
52.5°	826.9	819.5	767.5	712.4	689.1
55°	741.0	729.4	678.5	622.3	608.5
57.5°	655.2	642.4	594.7	547.0	537.5
60°	579.9	564.0	518.4	481.3	472.8
62.5°	508.9	490.8	452.7	424.1	419.8
65°	440.0	426.2	391.2	375.3	382.7
67.5°	380.6	366.8	341.4	335.0	332.9
70°	328.6	315.9	294.7	296.8	297.9
72.5°	280.9	273.5	257.6	262.9	267.2
75°	237.5	233.2	223.7	231.1	236.4
77.5°	198.2	195.1	190.8	197.2	205.7
80°	161.1	159.0	160.1	164.3	172.8
82.5°	124.0	119.8	123.0	131.5	136.8
85°	83.8	80.6	82.7	91.2	92.2
87.5°	39.2	39.2	38.2	44.5	44.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)