

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: P290752

Luminaire Tested: **14GR-LD5-43-F1-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290752
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-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4141.0 lumens
Efficiency: N/A
Efficacy: 108.3 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

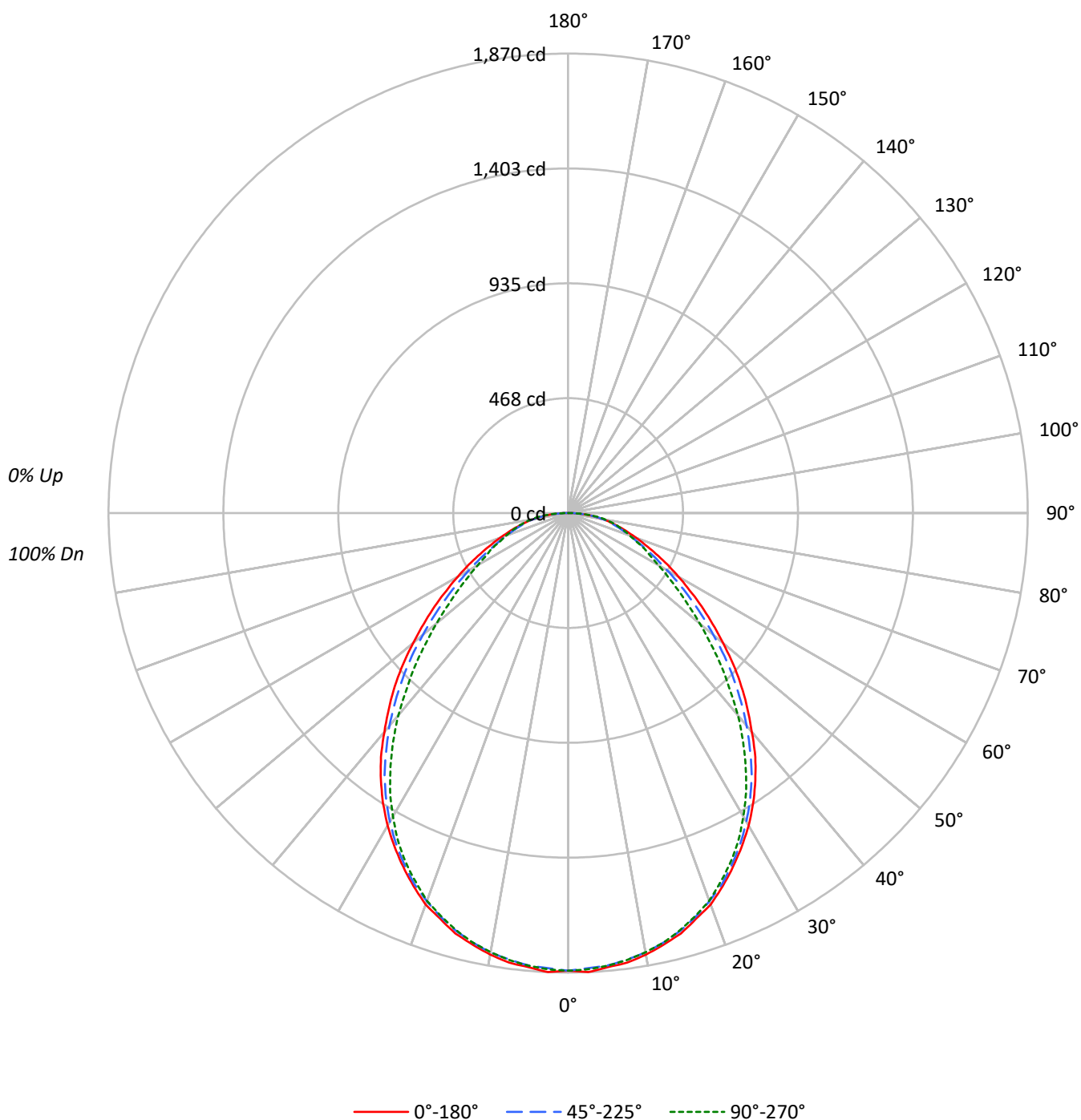
Input Watts (W): 38.223
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73		
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63		
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55		
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48		
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43		
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34		
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5011	5011	5011
5°	5010	4992	4995
10°	4985	4962	4959
15°	4934	4905	4897
20°	4855	4814	4808
25°	4715	4684	4650
30°	4563	4507	4430
35°	4362	4278	4138
40°	4085	3971	3775
45°	3793	3623	3359
50°	3441	3226	2925
55°	3113	2850	2556
60°	2794	2498	2278
65°	2508	2230	2182
70°	2315	2076	2098
75°	2210	2083	2201
80°	2236	2221	2397
85°	2316	2285	2550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.8	4.2
10°-20°	497.0	12.0
20°-30°	725.8	17.5
30°-40°	808.8	19.5
40°-50°	728.7	17.6
50°-60°	544.7	13.2
60°-70°	359.3	8.7
70°-80°	219.4	5.3
80°-90°	81.4	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°	1398.7	33.8
0°-40°	2207.5	53.3
0°-60°	3480.9	84.1
0°-90°	4141.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4141.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1862	1862	1862	1862	1862	
5°	1855	1853	1848	1858	1849	176
15°	1771	1764	1761	1771	1758	498
25°	1588	1582	1578	1580	1566	731
35°	1328	1316	1302	1280	1260	828
45°	997	986	952	908	883	767
55°	664	653	608	557	545	594
65°	394	382	350	336	343	395
75°	213	209	200	207	212	227
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°	1862.3	1862.3	1862.3	1862.3	1862.3
2.5°	1869.9	1861.4	1853.8	1865.2	1858.5
5°	1854.7	1852.8	1848.1	1857.6	1849.0
7.5°	1845.2	1838.6	1832.9	1844.3	1834.8
10°	1824.3	1820.5	1815.8	1825.3	1814.9
12.5°	1798.7	1794.9	1790.2	1801.6	1790.2
15°	1771.2	1764.5	1760.7	1771.2	1757.9
17.5°	1731.3	1728.5	1722.8	1733.2	1719.9
20°	1695.3	1684.8	1681.0	1688.6	1679.1
22.5°	1643.0	1635.5	1634.5	1639.3	1623.1
25°	1588.0	1582.3	1577.6	1580.4	1566.2
27.5°	1530.1	1522.5	1516.8	1515.9	1500.7
30°	1468.4	1458.9	1450.4	1442.8	1425.7
32.5°	1401.0	1389.6	1378.2	1365.9	1347.9
35°	1327.9	1316.5	1302.3	1279.5	1259.6
37.5°	1251.0	1237.7	1215.0	1188.4	1168.5
40°	1162.8	1156.1	1130.5	1096.3	1074.5
42.5°	1080.2	1072.6	1040.3	1002.3	972.9
45°	996.7	986.2	952.0	908.4	882.7
47.5°	911.2	900.8	862.8	808.7	785.9
50°	822.0	816.3	770.7	721.4	698.6
52.5°	740.4	733.7	687.2	637.9	617.0
55°	663.5	653.0	607.5	557.2	544.8
57.5°	586.6	575.2	532.5	489.8	481.2
60°	519.2	505.0	464.2	430.9	423.3
62.5°	455.6	439.5	405.3	379.7	375.9
65°	393.9	381.6	350.3	336.0	342.7
67.5°	340.8	328.4	305.6	299.9	298.0
70°	294.2	282.9	263.9	265.8	266.7
72.5°	251.5	244.9	230.7	235.4	239.2
75°	212.6	208.8	200.3	206.9	211.7
77.5°	177.5	174.7	170.9	176.5	184.1
80°	144.3	142.4	143.3	147.1	154.7
82.5°	111.1	107.3	110.1	117.7	122.4
85°	75.0	72.1	74.0	81.6	82.6
87.5°	35.1	35.1	34.2	39.9	39.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)