

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: P290579

Luminaire Tested: **14GR-LD5-36-F1-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290579
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-LD5-36-F1-UNV-L83050-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3838.0 lumens
Efficiency: N/A
Efficacy: 128.2 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

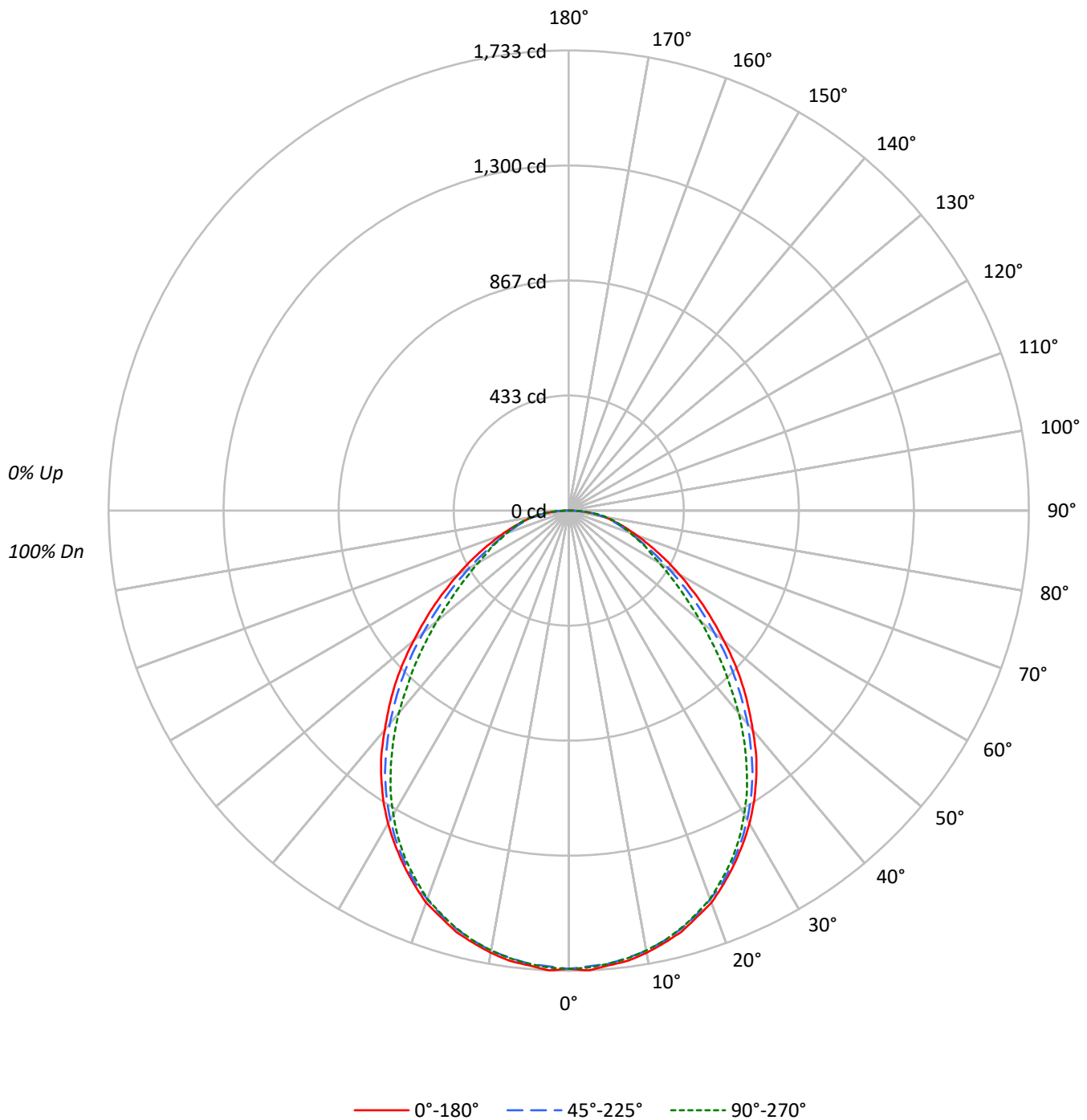
Input Watts (W): 29.946
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4645	4645	4645
5°	4643	4627	4629
10°	4620	4599	4596
15°	4573	4546	4539
20°	4499	4462	4457
25°	4370	4341	4310
30°	4229	4177	4106
35°	4043	3965	3835
40°	3786	3681	3498
45°	3515	3358	3114
50°	3190	2990	2711
55°	2885	2641	2369
60°	2590	2315	2112
65°	2325	2067	2022
70°	2146	1924	1945
75°	2049	1930	2040
80°	2072	2058	2222
85°	2146	2118	2362



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.9	4.2
10°-20°	460.6	12.0
20°-30°	672.7	17.5
30°-40°	749.6	19.5
40°-50°	675.4	17.6
50°-60°	504.9	13.2
60°-70°	333.0	8.7
70°-80°	203.3	5.3
80°-90°	75.4	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°	1296.3	33.8
0°-40°	2045.9	53.3
0°-60°	3226.2	84.1
0°-90°	3838.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3838.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1726	1726	1726	1726	1726	
5°	1719	1717	1713	1722	1714	163
15°	1642	1635	1632	1642	1629	462
25°	1472	1466	1462	1465	1452	677
35°	1231	1220	1207	1186	1167	767
45°	924	914	882	842	818	711
55°	615	605	563	516	505	551
65°	365	354	325	311	318	366
75°	197	194	186	192	196	210
85°	70	67	69	76	76	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1726.0	1726.0	1726.0	1726.0	1726.0
2.5°	1733.1	1725.2	1718.1	1728.7	1722.5
5°	1719.0	1717.2	1712.8	1721.6	1713.7
7.5°	1710.2	1704.1	1698.8	1709.3	1700.5
10°	1690.9	1687.3	1682.9	1691.7	1682.1
12.5°	1667.1	1663.6	1659.2	1669.7	1659.2
15°	1641.6	1635.4	1631.9	1641.6	1629.3
17.5°	1604.6	1602.0	1596.7	1606.4	1594.1
20°	1571.2	1561.5	1558.0	1565.1	1556.3
22.5°	1522.8	1515.8	1514.9	1519.3	1504.4
25°	1471.8	1466.5	1462.1	1464.8	1451.6
27.5°	1418.1	1411.1	1405.8	1404.9	1390.9
30°	1361.0	1352.2	1344.2	1337.2	1321.4
32.5°	1298.5	1287.9	1277.4	1265.9	1249.2
35°	1230.8	1220.2	1207.0	1185.9	1167.4
37.5°	1159.5	1147.2	1126.1	1101.4	1083.0
40°	1077.7	1071.5	1047.8	1016.1	995.9
42.5°	1001.1	994.1	964.2	929.0	901.7
45°	923.7	914.0	882.4	841.9	818.2
47.5°	844.5	834.9	799.7	749.5	728.4
50°	761.9	756.6	714.3	668.6	647.5
52.5°	686.2	680.0	636.9	591.2	571.8
55°	614.9	605.3	563.0	516.4	505.0
57.5°	543.7	533.1	493.5	453.9	446.0
60°	481.2	468.0	430.2	399.4	392.4
62.5°	422.3	407.3	375.6	351.9	348.4
65°	365.1	353.7	324.6	311.4	317.6
67.5°	315.8	304.4	283.3	278.0	276.2
70°	272.7	262.2	244.6	246.3	247.2
72.5°	233.1	227.0	213.8	218.2	221.7
75°	197.1	193.5	185.6	191.8	196.2
77.5°	164.5	161.9	158.4	163.6	170.7
80°	133.7	132.0	132.8	136.4	143.4
82.5°	102.9	99.4	102.0	109.1	113.5
85°	69.5	66.9	68.6	75.7	76.5
87.5°	32.6	32.6	31.7	36.9	36.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)