

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: P290744

Luminaire Tested: **14GR-LD5-43-F1-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290744
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-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3419.0 lumens
Efficiency: N/A
Efficacy: 93.8 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

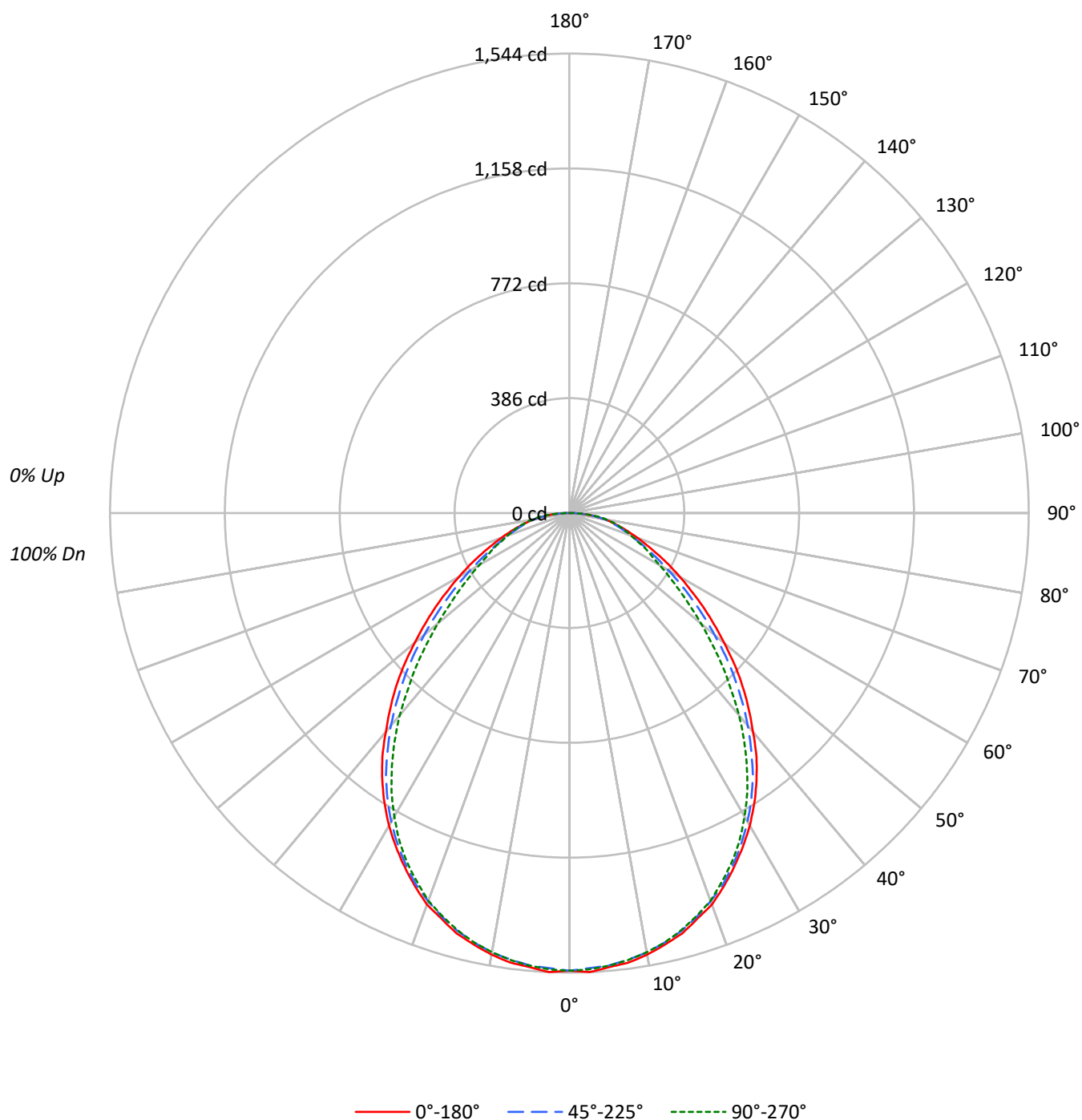
Input Watts (W): 36.456
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4138	4138	4138
5°	4136	4122	4124
10°	4116	4097	4094
15°	4074	4050	4043
20°	4008	3975	3970
25°	3893	3867	3839
30°	3767	3721	3658
35°	3602	3532	3416
40°	3372	3279	3116
45°	3132	2991	2774
50°	2841	2664	2415
55°	2570	2353	2110
60°	2307	2062	1881
65°	2071	1841	1801
70°	1911	1714	1733
75°	1825	1720	1817
80°	1846	1833	1979
85°	1911	1886	2106



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.2	4.2
10°-20°	410.4	12.0
20°-30°	599.3	17.5
30°-40°	667.8	19.5
40°-50°	601.7	17.6
50°-60°	449.8	13.2
60°-70°	296.7	8.7
70°-80°	181.1	5.3
80°-90°	67.2	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°	1154.8	33.8
0°-40°	1822.6	53.3
0°-60°	2874.0	84.1
0°-90°	3419.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3419.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1538	1538	1538	1538	1538	
5°	1531	1530	1526	1534	1527	146
15°	1462	1457	1454	1462	1451	412
25°	1311	1306	1302	1305	1293	603
35°	1096	1087	1075	1056	1040	684
45°	823	814	786	750	729	633
55°	548	539	502	460	450	491
65°	325	315	289	277	283	326
75°	176	172	165	171	175	188
85°	62	60	61	67	68	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1537.6	1537.6	1537.6	1537.6	1537.6
2.5°	1543.9	1536.8	1530.6	1540.0	1534.5
5°	1531.3	1529.8	1525.9	1533.7	1526.6
7.5°	1523.5	1518.0	1513.3	1522.7	1514.9
10°	1506.3	1503.1	1499.2	1507.0	1498.4
12.5°	1485.1	1482.0	1478.0	1487.5	1478.0
15°	1462.4	1456.9	1453.8	1462.4	1451.4
17.5°	1429.5	1427.1	1422.4	1431.0	1420.1
20°	1399.7	1391.1	1387.9	1394.2	1386.4
22.5°	1356.6	1350.3	1349.5	1353.4	1340.1
25°	1311.1	1306.4	1302.5	1304.9	1293.1
27.5°	1263.3	1257.0	1252.3	1251.6	1239.0
30°	1212.4	1204.5	1197.5	1191.2	1177.1
32.5°	1156.7	1147.3	1137.9	1127.7	1112.8
35°	1096.4	1087.0	1075.2	1056.4	1040.0
37.5°	1032.9	1021.9	1003.1	981.2	964.7
40°	960.0	954.5	933.4	905.2	887.1
42.5°	891.8	885.6	858.9	827.6	803.3
45°	822.9	814.3	786.0	750.0	728.8
47.5°	752.3	743.7	712.4	667.7	648.9
50°	678.7	674.0	636.4	595.6	576.8
52.5°	611.3	605.8	567.4	526.6	509.4
55°	547.8	539.2	501.6	460.0	449.8
57.5°	484.3	474.9	439.7	404.4	397.3
60°	428.7	416.9	383.2	355.8	349.5
62.5°	376.2	362.9	334.6	313.5	310.3
65°	325.2	315.0	289.2	277.4	282.9
67.5°	281.3	271.2	252.3	247.6	246.1
70°	242.9	233.5	217.9	219.4	220.2
72.5°	207.7	202.2	190.4	194.4	197.5
75°	175.5	172.4	165.4	170.8	174.8
77.5°	146.6	144.2	141.1	145.8	152.0
80°	119.1	117.6	118.3	121.5	127.7
82.5°	91.7	88.6	90.9	97.2	101.1
85°	61.9	59.6	61.1	67.4	68.2
87.5°	29.0	29.0	28.2	32.9	32.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)