

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: P291136

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291136
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-43-A-UNV-L92765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3456.0 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

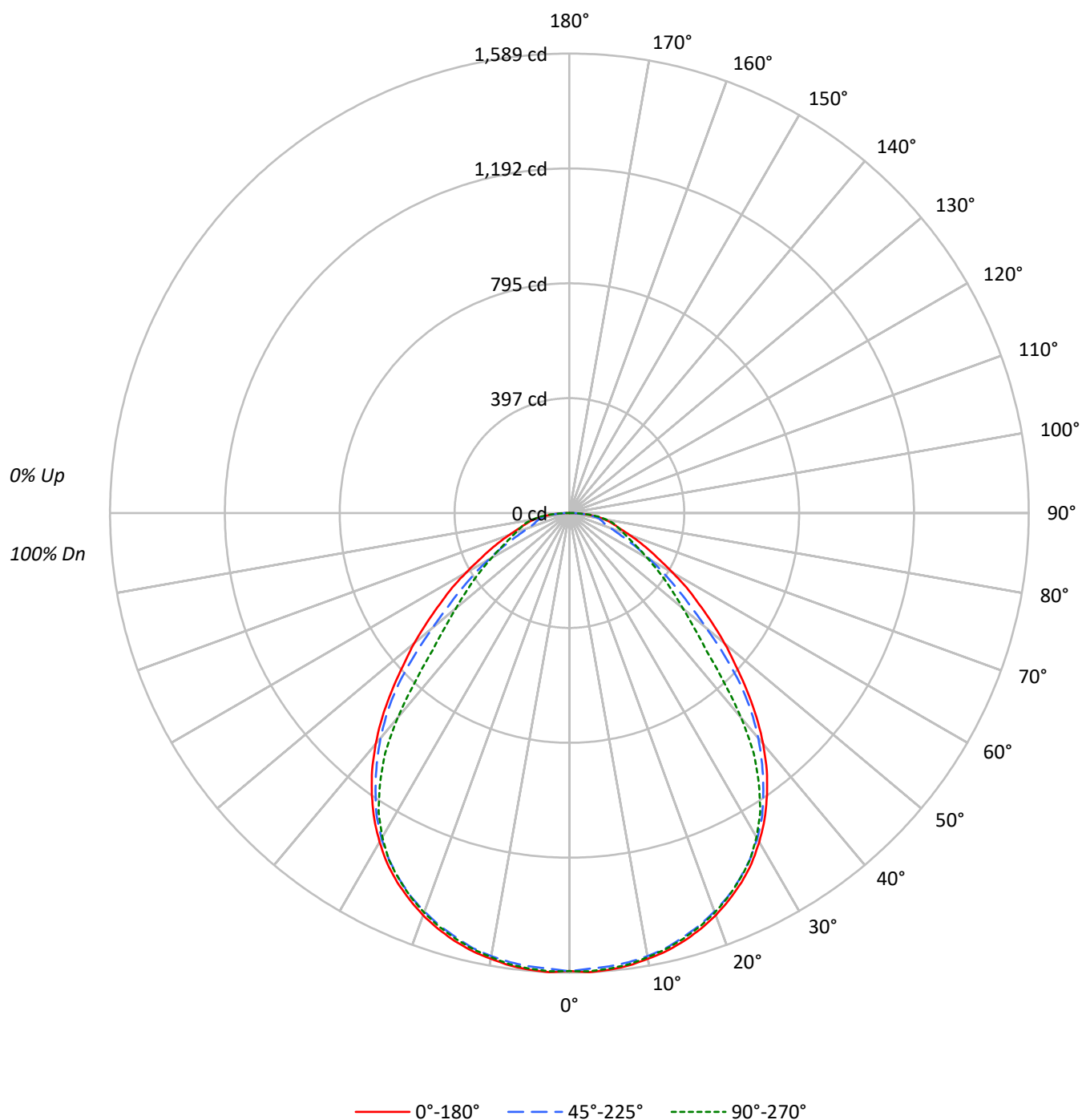
Input Watts (W): 36.456
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	102	98	107	103	100	97		99	96	94		95	93	91		92	90	88
2	101	94	88	83	99	92	86	82		88	84	80		85	81	78		82	79	76
3	93	84	76	71	91	82	75	70		79	74	69		77	72	68		74	70	66
4	86	75	67	61	84	74	67	61		72	65	60		69	64	59		67	62	58
5	80	68	60	54	78	67	59	53		65	58	53		63	57	52		61	56	52
6	74	62	54	48	72	61	53	47		59	52	47		58	51	47		56	51	46
7	69	57	48	43	67	56	48	43		54	47	42		53	47	42		52	46	42
8	65	52	44	38	63	51	44	38		50	43	38		49	43	38		48	42	38
9	61	48	40	35	59	47	40	35		46	39	35		45	39	35		44	39	34
10	57	44	37	32	56	44	37	32		43	36	32		42	36	32		41	36	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4262	4262	4262
5°	4282	4250	4271
10°	4277	4251	4262
15°	4269	4231	4244
20°	4239	4200	4211
25°	4183	4142	4145
30°	4080	4038	4021
35°	3913	3842	3755
40°	3663	3570	3248
45°	3308	3183	2538
50°	2933	2584	2147
55°	2561	2120	1894
60°	2221	1745	1672
65°	1947	1400	1543
70°	1736	1187	1554
75°	1694	1252	1736
80°	1878	1579	1990
85°	1958	1686	2331



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.3	4.3
10°-20°	430.4	12.5
20°-30°	643.9	18.6
30°-40°	726.9	21.0
40°-50°	616.6	17.8
50°-60°	417.2	12.1
60°-70°	249.0	7.2
70°-80°	156.0	4.5
80°-90°	65.6	1.9
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°	1224.6	35.4
0°-40°	1951.5	56.5
0°-60°	2985.4	86.4
0°-90°	3456.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3456.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1584	1584	1584	1584	1584	
5°	1585	1580	1573	1584	1581	151
15°	1532	1529	1519	1529	1524	432
25°	1409	1404	1395	1402	1396	648
35°	1191	1183	1170	1159	1143	742
45°	869	872	836	717	667	670
55°	546	520	452	405	404	492
65°	306	254	220	234	242	306
75°	163	145	120	159	167	175
85°	63	60	55	71	76	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1583.7	1583.7	1583.7	1583.7	1583.7
2.5°	1589.3	1584.5	1577.3	1586.9	1586.1
5°	1585.3	1580.5	1573.3	1584.5	1581.3
7.5°	1578.1	1574.1	1566.8	1577.3	1574.1
10°	1565.2	1562.0	1555.6	1564.4	1559.6
12.5°	1551.6	1549.2	1541.2	1549.2	1544.4
15°	1532.3	1529.1	1518.7	1529.1	1523.5
17.5°	1508.2	1504.2	1495.4	1504.2	1499.4
20°	1480.1	1475.3	1466.5	1475.3	1470.5
22.5°	1446.4	1442.4	1434.4	1442.4	1436.0
25°	1408.7	1403.9	1395.1	1401.5	1395.9
27.5°	1365.4	1358.9	1350.9	1355.7	1352.5
30°	1313.2	1305.2	1299.5	1299.5	1293.9
32.5°	1256.2	1250.6	1240.9	1235.3	1228.1
35°	1191.2	1183.2	1169.5	1159.1	1143.0
37.5°	1121.3	1111.7	1094.9	1068.4	1046.7
40°	1042.7	1030.6	1016.2	964.0	924.7
42.5°	958.4	956.0	931.1	842.0	787.4
45°	869.3	872.5	836.4	716.8	667.0
47.5°	779.4	790.6	724.8	607.6	581.9
50°	700.7	704.8	617.3	527.4	512.9
52.5°	619.7	613.2	526.6	464.0	453.5
55°	545.8	520.1	451.9	404.6	403.7
57.5°	480.8	433.4	386.1	350.8	354.8
60°	412.6	359.6	324.3	305.0	310.6
62.5°	352.4	301.8	270.5	264.9	274.5
65°	305.8	253.6	219.9	234.4	242.4
67.5°	261.7	217.5	179.0	213.5	216.7
70°	220.7	188.6	150.9	196.7	197.5
72.5°	187.0	167.0	130.8	178.2	180.6
75°	162.9	145.3	120.4	158.9	167.0
77.5°	142.9	124.4	111.6	137.3	150.9
80°	121.2	100.3	101.9	114.8	128.4
82.5°	93.1	77.9	81.1	94.7	104.3
85°	63.4	60.2	54.6	70.6	75.5
87.5°	33.7	32.1	28.1	40.1	37.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)