

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: P291023

Luminaire Tested: **14GR-LD5-36-A-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291023
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-LD5-36-A-UNV-L82765-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3688.0 lumens
Efficiency: N/A
Efficacy: 124.3 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

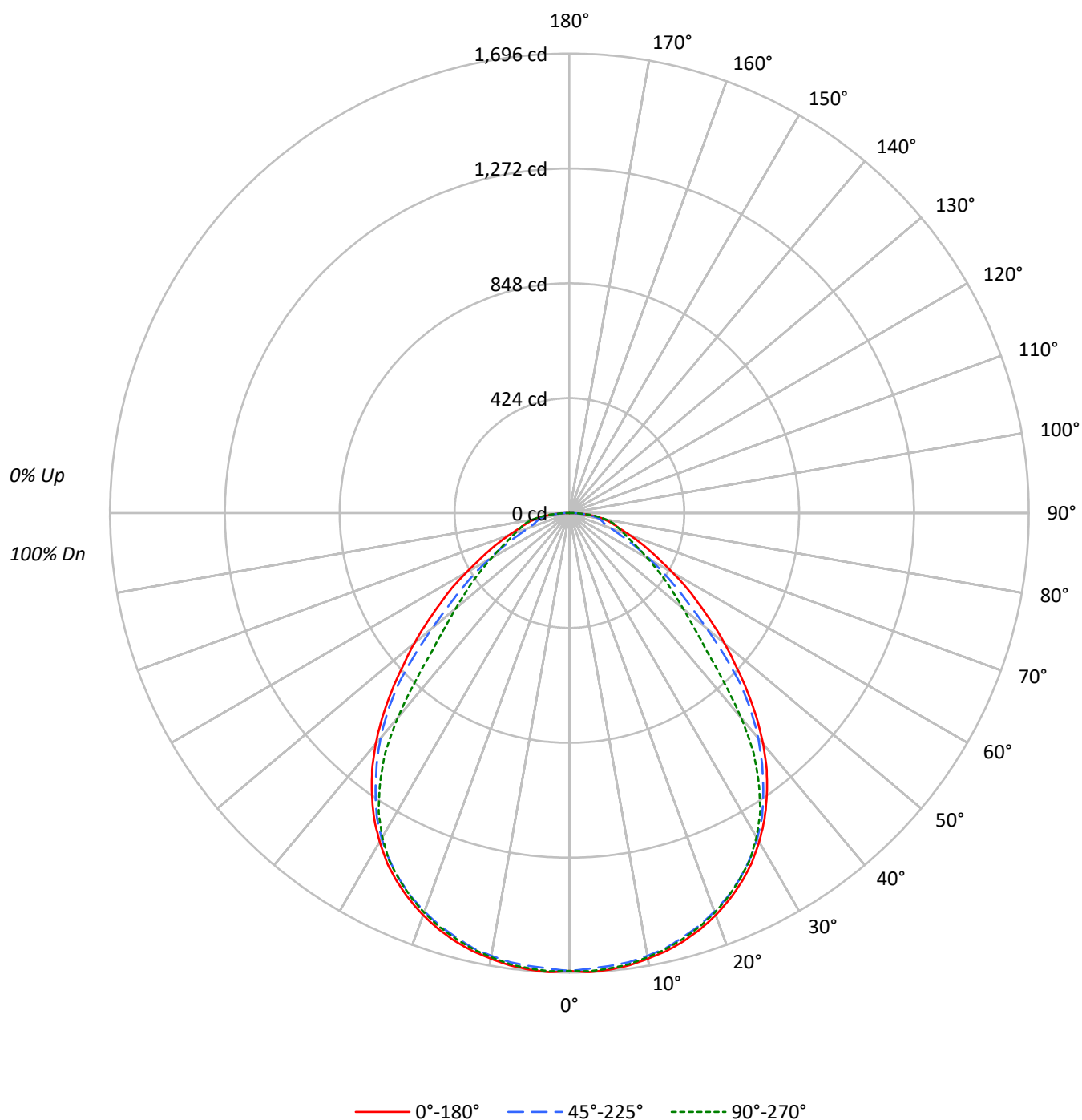
Input Watts (W): 29.667
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	73	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°	4548	4548	4548
5°	4570	4535	4558
10°	4564	4536	4548
15°	4556	4515	4529
20°	4523	4481	4494
25°	4464	4420	4423
30°	4354	4309	4291
35°	4176	4100	4007
40°	3909	3809	3466
45°	3530	3397	2709
50°	3131	2758	2291
55°	2733	2262	2022
60°	2370	1863	1784
65°	2078	1494	1647
70°	1854	1267	1658
75°	1808	1336	1853
80°	2004	1686	2125
85°	2090	1797	2485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.4	4.3
10°-20°	459.3	12.5
20°-30°	687.1	18.6
30°-40°	775.7	21.0
40°-50°	658.0	17.8
50°-60°	445.2	12.1
60°-70°	265.8	7.2
70°-80°	166.4	4.5
80°-90°	70.0	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°	1306.8	35.4
0°-40°	2082.5	56.5
0°-60°	3185.8	86.4
0°-90°	3688.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3688.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1690	1690	1690	1690	1690	
5°	1692	1687	1679	1691	1687	161
15°	1635	1632	1621	1632	1626	461
25°	1503	1498	1489	1496	1490	691
35°	1271	1263	1248	1237	1220	792
45°	928	931	892	765	712	715
55°	582	555	482	432	431	525
65°	326	271	235	250	259	326
75°	174	155	128	170	178	187
85°	68	64	58	75	80	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1690.0	1690.0	1690.0	1690.0	1690.0
2.5°	1696.0	1690.9	1683.2	1693.4	1692.6
5°	1691.7	1686.6	1678.9	1690.9	1687.4
7.5°	1684.0	1679.7	1672.0	1683.2	1679.7
10°	1670.3	1666.9	1660.0	1669.4	1664.3
12.5°	1655.7	1653.2	1644.6	1653.2	1648.0
15°	1635.2	1631.8	1620.6	1631.8	1625.8
17.5°	1609.5	1605.2	1595.8	1605.2	1600.1
20°	1579.5	1574.4	1564.9	1574.4	1569.2
22.5°	1543.5	1539.2	1530.7	1539.2	1532.4
25°	1503.3	1498.1	1488.7	1495.6	1489.6
27.5°	1457.0	1450.2	1441.6	1446.7	1443.3
30°	1401.3	1392.8	1386.8	1386.8	1380.8
32.5°	1340.5	1334.5	1324.3	1318.3	1310.5
35°	1271.1	1262.6	1248.0	1236.9	1219.8
37.5°	1196.6	1186.3	1168.4	1140.1	1117.0
40°	1112.7	1099.8	1084.4	1028.7	986.8
42.5°	1022.7	1020.2	993.6	898.5	840.3
45°	927.7	931.1	892.5	764.9	711.8
47.5°	831.7	843.7	773.5	648.4	621.0
50°	747.8	752.1	658.7	562.8	547.3
52.5°	661.3	654.4	561.9	495.1	484.0
55°	582.5	555.1	482.2	431.7	430.9
57.5°	513.1	462.5	412.0	374.3	378.6
60°	440.3	383.7	346.1	325.5	331.5
62.5°	376.0	322.1	288.7	282.7	292.9
65°	326.4	270.7	234.7	250.1	258.7
67.5°	279.2	232.1	191.0	227.8	231.3
70°	235.6	201.3	161.0	209.9	210.7
72.5°	199.6	178.2	139.6	190.2	192.7
75°	173.9	155.0	128.5	169.6	178.2
77.5°	152.5	132.8	119.1	146.5	161.0
80°	129.3	107.1	108.8	122.5	137.1
82.5°	99.4	83.1	86.5	101.1	111.4
85°	67.7	64.2	58.2	75.4	80.5
87.5°	36.0	34.3	30.0	42.8	40.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)