

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: P291073

Luminaire Tested: **14GR-LD5-40-A-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291073
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-LD5-40-A-UNV-L93050-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3515.0 lumens
Efficiency: N/A
Efficacy: 102.4 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

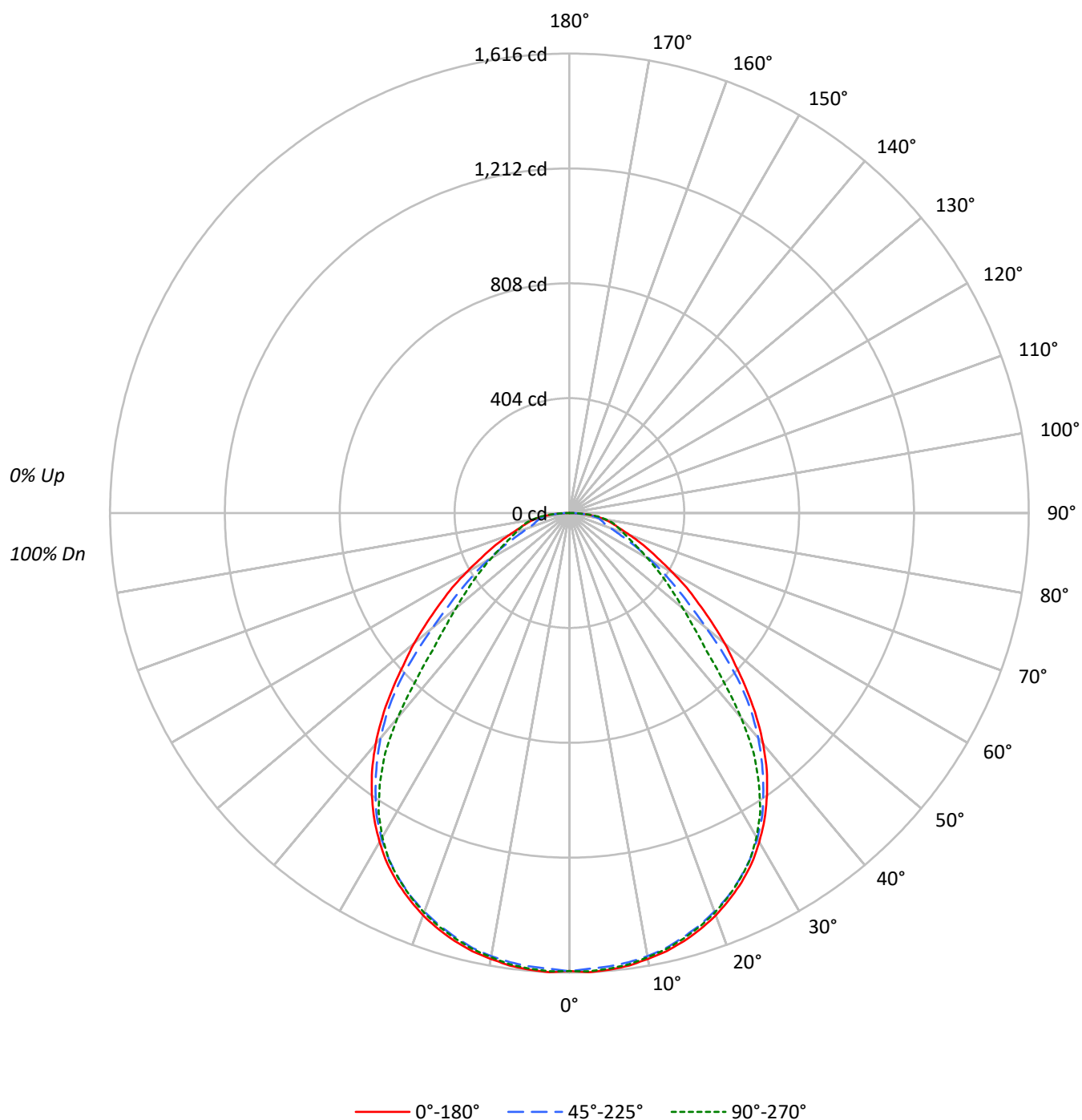
Input Watts (W): 34.317
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74		
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64		
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56		
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50		
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44		
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40		
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36		
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33		
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4334	4334	4334
5°	4356	4322	4344
10°	4350	4323	4334
15°	4342	4303	4317
20°	4311	4271	4283
25°	4254	4213	4215
30°	4150	4107	4089
35°	3980	3908	3819
40°	3725	3631	3304
45°	3365	3237	2582
50°	2984	2628	2184
55°	2604	2156	1926
60°	2258	1775	1700
65°	1980	1424	1570
70°	1766	1208	1580
75°	1723	1274	1765
80°	1911	1607	2024
85°	1991	1714	2368



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.8	4.3
10°-20°	437.8	12.5
20°-30°	654.9	18.6
30°-40°	739.3	21.0
40°-50°	627.2	17.8
50°-60°	424.3	12.1
60°-70°	253.3	7.2
70°-80°	158.6	4.5
80°-90°	66.7	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°	1245.5	35.4
0°-40°	1984.8	56.5
0°-60°	3036.3	86.4
0°-90°	3515.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3515.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1611	1611	1611	1611	1611	
5°	1612	1608	1600	1612	1608	153
15°	1558	1555	1545	1555	1550	439
25°	1433	1428	1419	1425	1420	659
35°	1212	1203	1190	1179	1162	755
45°	884	887	851	729	678	681
55°	555	529	460	412	411	500
65°	311	258	224	238	246	311
75°	166	148	122	162	170	178
85°	64	61	56	72	77	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1610.7	1610.7	1610.7	1610.7	1610.7
2.5°	1616.4	1611.5	1604.2	1614.0	1613.2
5°	1612.4	1607.5	1600.1	1611.5	1608.3
7.5°	1605.0	1600.9	1593.6	1604.2	1600.9
10°	1592.0	1588.7	1582.2	1591.1	1586.2
12.5°	1578.1	1575.6	1567.5	1575.6	1570.7
15°	1558.5	1555.2	1544.6	1555.2	1549.5
17.5°	1534.0	1529.9	1520.9	1529.9	1525.0
20°	1505.4	1500.5	1491.5	1500.5	1495.6
22.5°	1471.1	1467.0	1458.9	1467.0	1460.5
25°	1432.8	1427.9	1418.9	1425.4	1419.7
27.5°	1388.7	1382.1	1374.0	1378.9	1375.6
30°	1335.6	1327.4	1321.7	1321.7	1316.0
32.5°	1277.6	1271.9	1262.1	1256.4	1249.1
35°	1211.5	1203.4	1189.5	1178.9	1162.5
37.5°	1140.5	1130.7	1113.5	1086.6	1064.6
40°	1060.5	1048.2	1033.5	980.5	940.5
42.5°	974.8	972.3	947.0	856.4	800.9
45°	884.1	887.4	850.7	729.0	678.4
47.5°	792.7	804.1	737.2	618.0	591.9
50°	712.7	716.8	627.8	536.4	521.7
52.5°	630.2	623.7	535.5	471.9	461.3
55°	555.1	529.0	459.6	411.5	410.6
57.5°	489.0	440.8	392.7	356.8	360.8
60°	419.6	365.7	329.8	310.2	315.9
62.5°	358.4	307.0	275.1	269.4	279.2
65°	311.0	258.0	223.7	238.4	246.5
67.5°	266.1	221.2	182.1	217.2	220.4
70°	224.5	191.9	153.5	200.0	200.8
72.5°	190.2	169.8	133.1	181.2	183.7
75°	165.7	147.8	122.5	161.6	169.8
77.5°	145.3	126.5	113.5	139.6	153.5
80°	123.3	102.0	103.7	116.7	130.6
82.5°	94.7	79.2	82.5	96.3	106.1
85°	64.5	61.2	55.5	71.8	76.7
87.5°	34.3	32.7	28.6	40.8	38.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)