

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: P291067

Luminaire Tested: **14GR-LD5-36-A-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291067
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-L93050-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2875.0 lumens
Efficiency: N/A
Efficacy: 96.0 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

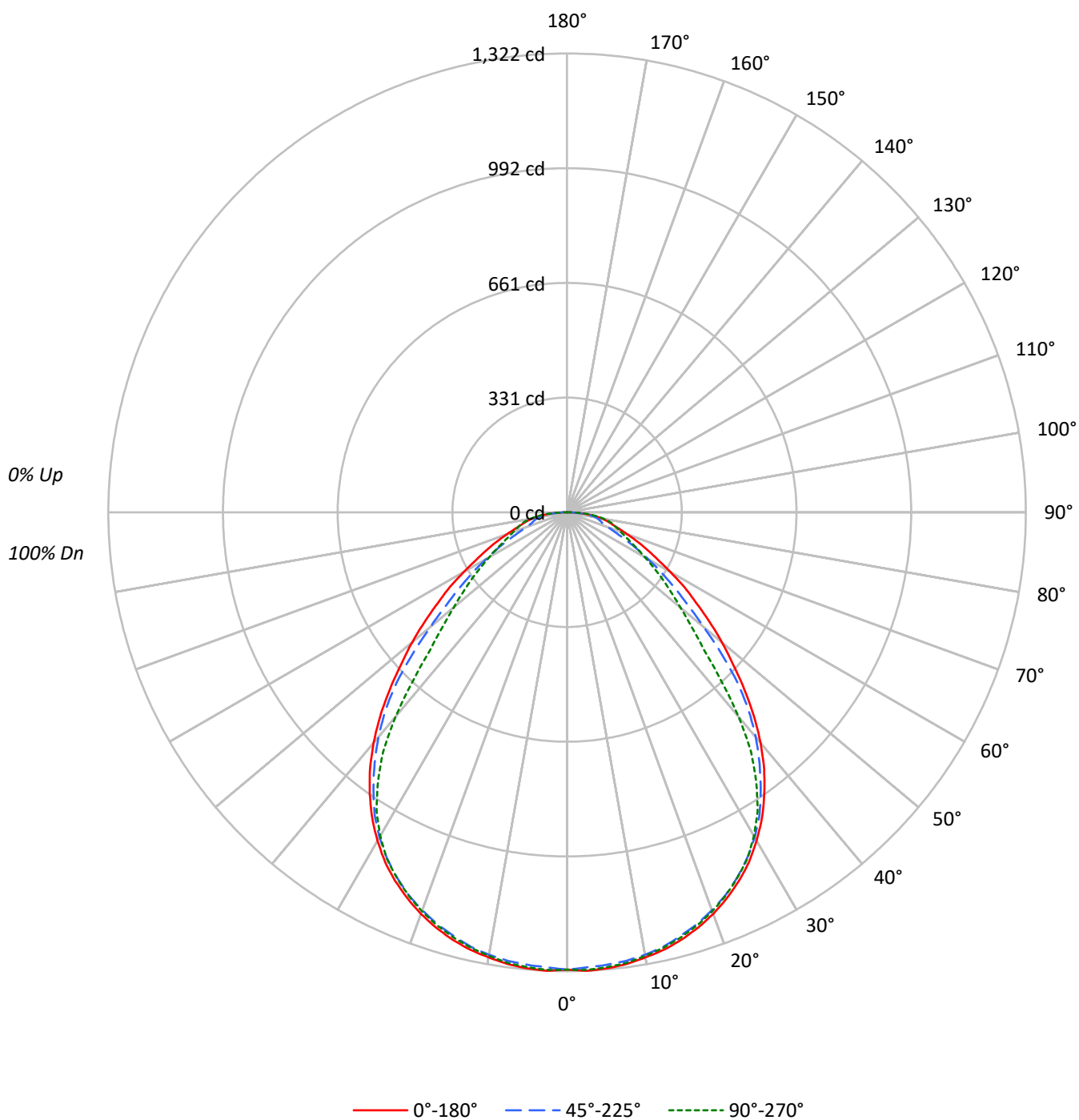
Input Watts (W): 29.946
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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	73	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°	3545	3545	3545
5°	3562	3535	3553
10°	3558	3536	3545
15°	3551	3520	3531
20°	3526	3494	3503
25°	3480	3446	3448
30°	3394	3359	3345
35°	3255	3196	3124
40°	3047	2970	2702
45°	2752	2648	2112
50°	2440	2150	1786
55°	2130	1764	1576
60°	1847	1452	1391
65°	1620	1165	1284
70°	1445	987	1293
75°	1410	1042	1444
80°	1562	1314	1655
85°	1630	1402	1939



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.0	4.3
10°-20°	358.1	12.5
20°-30°	535.7	18.6
30°-40°	604.7	21.0
40°-50°	513.0	17.8
50°-60°	347.1	12.1
60°-70°	207.2	7.2
70°-80°	129.7	4.5
80°-90°	54.6	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°	1018.7	35.4
0°-40°	1623.4	56.5
0°-60°	2483.5	86.4
0°-90°	2875.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2875.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1318	1318	1318	1318	1318	
5°	1319	1315	1309	1318	1315	125
15°	1275	1272	1263	1272	1267	359
25°	1172	1168	1160	1166	1161	539
35°	991	984	973	964	951	617
45°	723	726	696	596	555	557
55°	454	433	376	336	336	409
65°	254	211	183	195	202	254
75°	136	121	100	132	139	146
85°	53	50	45	59	63	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1317.5	1317.5	1317.5	1317.5	1317.5
2.5°	1322.1	1318.1	1312.1	1320.1	1319.5
5°	1318.8	1314.8	1308.8	1318.1	1315.4
7.5°	1312.8	1309.4	1303.4	1312.1	1309.4
10°	1302.1	1299.4	1294.1	1301.4	1297.4
12.5°	1290.7	1288.7	1282.1	1288.7	1284.7
15°	1274.7	1272.0	1263.4	1272.0	1267.4
17.5°	1254.7	1251.3	1244.0	1251.3	1247.3
20°	1231.3	1227.3	1220.0	1227.3	1223.3
22.5°	1203.3	1199.9	1193.3	1199.9	1194.6
25°	1171.9	1167.9	1160.5	1165.9	1161.2
27.5°	1135.8	1130.5	1123.8	1127.8	1125.1
30°	1092.4	1085.7	1081.1	1081.1	1076.4
32.5°	1045.0	1040.3	1032.3	1027.7	1021.6
35°	990.9	984.2	972.9	964.2	950.9
37.5°	932.8	924.8	910.8	888.8	870.7
40°	867.4	857.4	845.4	802.0	769.2
42.5°	797.3	795.3	774.6	700.5	655.1
45°	723.2	725.8	695.8	596.3	554.9
47.5°	648.4	657.7	603.0	505.5	484.1
50°	582.9	586.3	513.5	438.7	426.7
52.5°	515.5	510.2	438.0	386.0	377.3
55°	454.1	432.7	375.9	336.5	335.9
57.5°	400.0	360.6	321.2	291.8	295.1
60°	343.2	299.1	269.8	253.7	258.4
62.5°	293.1	251.1	225.0	220.4	228.4
65°	254.4	211.0	183.0	195.0	201.7
67.5°	217.7	181.0	148.9	177.6	180.3
70°	183.6	156.9	125.5	163.6	164.3
72.5°	155.6	138.9	108.8	148.2	150.2
75°	135.6	120.9	100.2	132.2	138.9
77.5°	118.9	103.5	92.8	114.2	125.5
80°	100.8	83.5	84.8	95.5	106.8
82.5°	77.5	64.8	67.4	78.8	86.8
85°	52.8	50.1	45.4	58.8	62.8
87.5°	28.0	26.7	23.4	33.4	31.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)