

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P601297

Luminaire Tested: 14CGSB-35-L850

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601297
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2311-233-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/24/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CGSB-35-L850
Description: 1x4 CGSB AT 3500lm 5000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

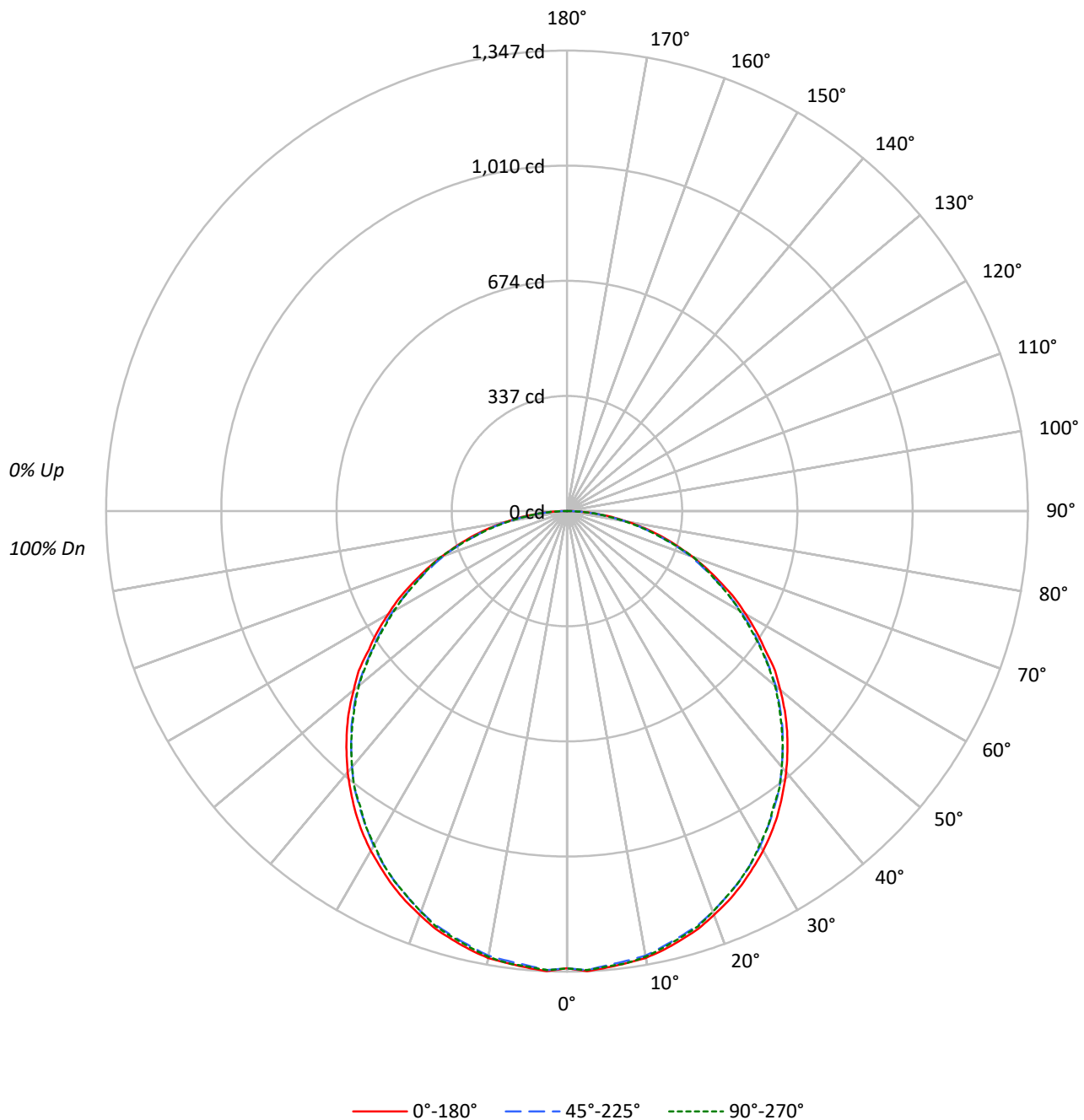
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3881.3 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 39
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: 24 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	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	85	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	71	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	60	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	51	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	45	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	39	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	35	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	31	31	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	28	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3598	3598	3598
5°	3620	3602	3611
10°	3626	3607	3616
15°	3613	3585	3594
20°	3599	3571	3571
25°	3583	3544	3544
30°	3563	3512	3501
35°	3537	3472	3461
40°	3502	3431	3431
45°	3463	3387	3375
50°	3406	3336	3322
55°	3316	3238	3222
60°	3247	3158	3140
65°	3163	3078	3057
70°	3069	3017	3095
75°	2981	2843	2843
80°	2789	2738	2634
85°	2572	2470	2470

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3463 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.1	3.3
10°-20°	364.4	9.4
20°-30°	551.3	14.2
30°-40°	664.4	17.1
40°-50°	689.9	17.8
50°-60°	621.2	16.0
60°-70°	480.0	12.4
70°-80°	292.5	7.5
80°-90°	90.4	2.3
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°	1042.9	26.9
0°-40°	1707.2	44.0
0°-60°	3018.3	77.8
0°-90°	3881.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3881.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1337	1337	1337	1337	1337	
5°	1340	1337	1334	1334	1337	127
15°	1297	1294	1287	1287	1290	366
25°	1207	1204	1194	1190	1194	556
35°	1077	1070	1057	1054	1054	673
45°	910	904	890	887	887	701
55°	707	700	690	687	687	635
65°	497	487	483	477	480	493
75°	287	277	273	270	273	301
85°	83	83	80	77	80	94
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1336.9	1336.9	1336.9	1336.9	1336.9
2.5°	1346.9	1346.9	1343.5	1343.5	1343.5
5°	1340.2	1336.9	1333.5	1333.5	1336.9
7.5°	1333.5	1333.5	1326.9	1326.9	1333.5
10°	1326.9	1323.5	1320.2	1320.2	1323.5
12.5°	1313.5	1310.2	1303.5	1303.5	1306.9
15°	1296.9	1293.5	1286.9	1286.9	1290.2
17.5°	1280.2	1276.9	1270.2	1270.2	1273.5
20°	1256.9	1253.5	1246.9	1243.5	1246.9
22.5°	1233.5	1230.2	1220.2	1216.9	1220.2
25°	1206.9	1203.5	1193.5	1190.2	1193.5
27.5°	1176.8	1173.5	1163.5	1160.2	1163.5
30°	1146.8	1140.2	1130.2	1123.5	1126.8
32.5°	1113.5	1106.8	1093.5	1090.2	1093.5
35°	1076.8	1070.2	1056.8	1053.5	1053.5
37.5°	1036.8	1033.5	1020.2	1016.8	1020.2
40°	996.8	990.2	976.8	973.5	976.8
42.5°	953.5	946.8	933.5	933.5	933.5
45°	910.1	903.5	890.1	886.8	886.8
47.5°	863.5	856.8	843.5	840.1	840.1
50°	813.5	806.8	796.8	793.5	793.5
52.5°	766.8	756.8	743.4	740.1	740.1
55°	706.8	700.1	690.1	686.8	686.8
57.5°	656.8	646.8	640.1	633.4	633.4
60°	603.4	593.4	586.8	583.4	583.4
62.5°	553.4	540.1	533.4	530.1	533.4
65°	496.7	486.7	483.4	476.7	480.1
67.5°	443.4	433.4	430.1	430.1	436.7
70°	390.1	380.1	383.4	373.4	393.4
72.5°	336.7	330.1	330.1	320.0	330.1
75°	286.7	276.7	273.4	270.0	273.4
77.5°	233.4	230.0	226.7	220.0	223.4
80°	180.0	186.7	176.7	166.7	170.0
82.5°	133.4	130.0	123.4	120.0	123.4
85°	83.3	83.3	80.0	76.7	80.0
87.5°	40.0	40.0	36.7	36.7	40.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)