

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: P601312

Luminaire Tested: 14CGSB-45-L840

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601312
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-45-L840
Description: 1x4 CGSB AT 4500lm 4000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

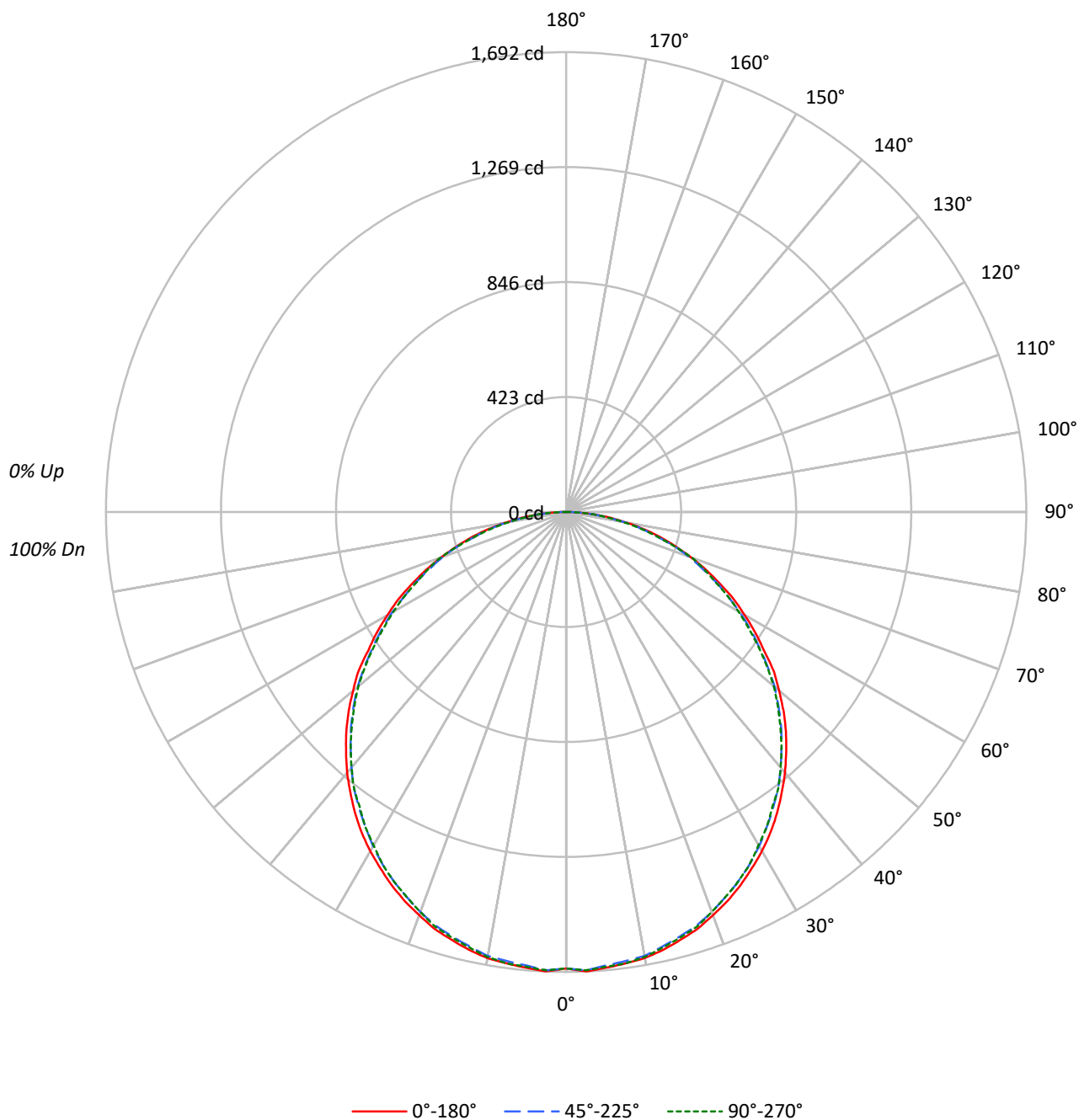
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4874.9 lumens
Efficiency: N/A
Efficacy: 98.5 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): 49.5
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	100		100
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83		83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69		69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58		58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49		49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43		43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37		37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33		33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29		29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26		26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4518	4518	4518
5°	4547	4524	4536
10°	4554	4531	4542
15°	4538	4503	4515
20°	4521	4485	4485
25°	4501	4451	4451
30°	4476	4411	4398
35°	4443	4361	4347
40°	4398	4310	4310
45°	4350	4255	4239
50°	4277	4190	4172
55°	4165	4067	4047
60°	4079	3967	3944
65°	3973	3866	3840
70°	3854	3788	3888
75°	3744	3570	3570
80°	3504	3439	3310
85°	3233	3103	3103

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4350 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.7	3.3
10°-20°	457.7	9.4
20°-30°	692.5	14.2
30°-40°	834.4	17.1
40°-50°	866.5	17.8
50°-60°	780.3	16.0
60°-70°	602.9	12.4
70°-80°	367.4	7.5
80°-90°	113.6	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°	1309.8	26.9
0°-40°	2144.3	44.0
0°-60°	3791.0	77.8
0°-90°	4874.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4874.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1679	1679	1679	1679	1679	
5°	1683	1679	1675	1675	1679	160
15°	1629	1625	1616	1616	1620	460
25°	1516	1512	1499	1495	1499	699
35°	1352	1344	1327	1323	1323	846
45°	1143	1135	1118	1114	1114	881
55°	888	879	867	863	863	797
65°	624	611	607	599	603	619
75°	360	348	343	339	343	378
85°	105	105	100	96	100	118
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1679.1	1679.1	1679.1	1679.1	1679.1
2.5°	1691.7	1691.7	1687.5	1687.5	1687.5
5°	1683.3	1679.1	1674.9	1674.9	1679.1
7.5°	1674.9	1674.9	1666.5	1666.5	1674.9
10°	1666.5	1662.4	1658.2	1658.2	1662.4
12.5°	1649.8	1645.6	1637.2	1637.2	1641.4
15°	1628.9	1624.7	1616.3	1616.3	1620.5
17.5°	1607.9	1603.7	1595.4	1595.4	1599.6
20°	1578.6	1574.4	1566.1	1561.9	1566.1
22.5°	1549.3	1545.1	1532.6	1528.4	1532.6
25°	1515.8	1511.6	1499.1	1494.9	1499.1
27.5°	1478.1	1473.9	1461.4	1457.2	1461.4
30°	1440.4	1432.1	1419.5	1411.1	1415.3
32.5°	1398.6	1390.2	1373.4	1369.2	1373.4
35°	1352.5	1344.1	1327.4	1323.2	1323.2
37.5°	1302.3	1298.1	1281.3	1277.1	1281.3
40°	1252.0	1243.6	1226.9	1222.7	1226.9
42.5°	1197.6	1189.2	1172.4	1172.4	1172.4
45°	1143.1	1134.8	1118.0	1113.8	1113.8
47.5°	1084.5	1076.1	1059.4	1055.2	1055.2
50°	1021.7	1013.3	1000.8	996.6	996.6
52.5°	963.1	950.5	933.8	929.6	929.6
55°	887.7	879.3	866.8	862.6	862.6
57.5°	824.9	812.3	804.0	795.6	795.6
60°	757.9	745.3	737.0	732.8	732.8
62.5°	695.1	678.3	670.0	665.8	670.0
65°	623.9	611.3	607.2	598.8	603.0
67.5°	556.9	544.3	540.2	540.2	548.5
70°	489.9	477.4	481.5	469.0	494.1
72.5°	422.9	414.5	414.5	402.0	414.5
75°	360.1	347.5	343.4	339.2	343.4
77.5°	293.1	288.9	284.7	276.4	280.5
80°	226.1	234.5	221.9	209.4	213.6
82.5°	167.5	163.3	154.9	150.7	154.9
85°	104.7	104.7	100.5	96.3	100.5
87.5°	50.2	50.2	46.1	46.1	50.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)