

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: P601337

Luminaire Tested: 14CGSB-60-L850

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601337
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-60-L850
Description: 1x4 CGSB AT 6000lm 5000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

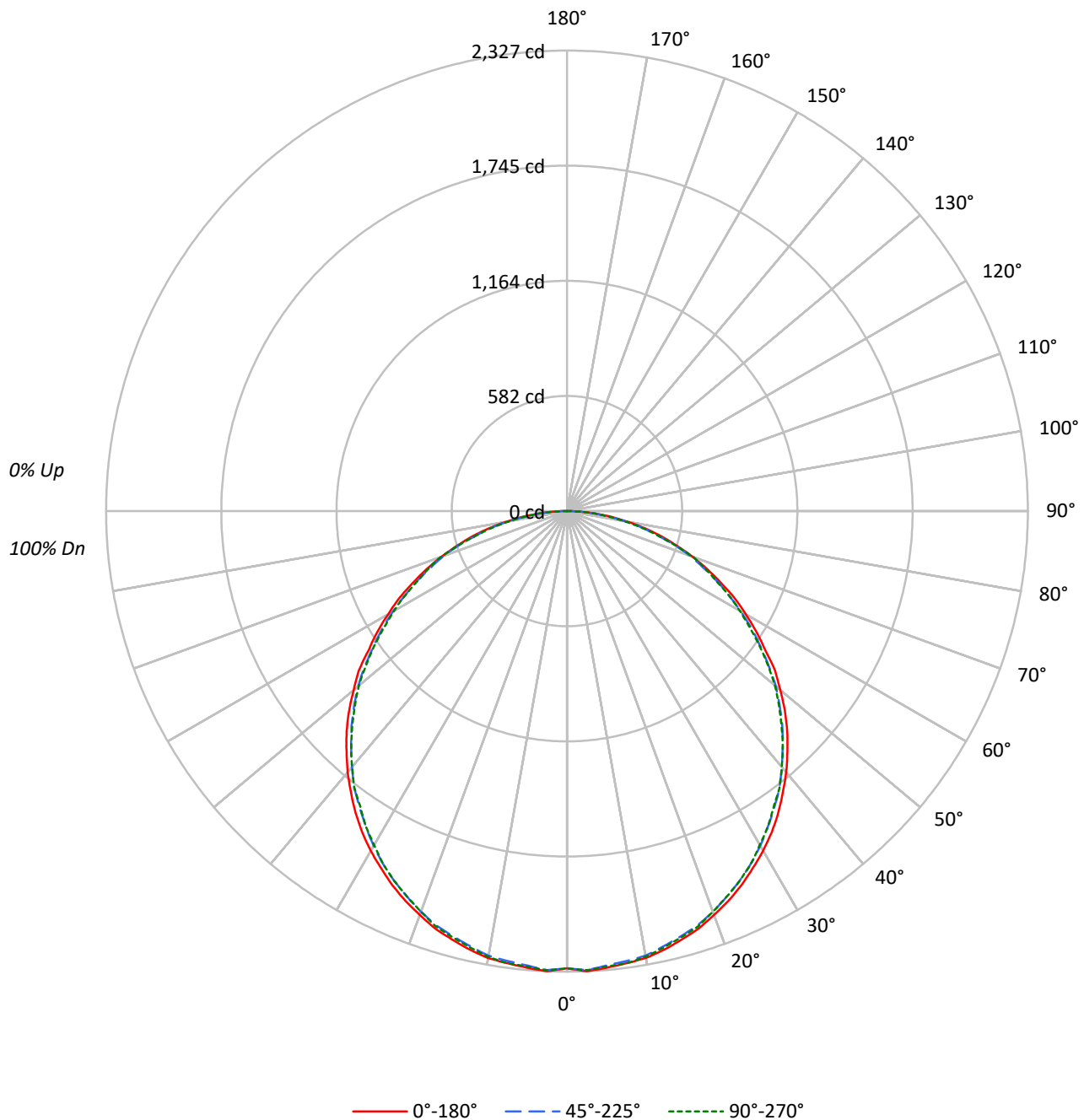
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6705.8 lumens
Efficiency: N/A
Efficacy: 98.2 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): 68.3
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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	99	95	106	101	97	94		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	71	64	87	77	70	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	41	68	55	47	40		53	46	40		52	45	40		50	44	39
7	64	51	42	36	63	50	42	36		48	41	35		47	40	35		46	39	35
8	60	46	38	32	58	46	37	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	33	28		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6215	6215	6215
5°	6255	6224	6239
10°	6264	6233	6248
15°	6242	6194	6210
20°	6218	6169	6169
25°	6191	6123	6123
30°	6157	6067	6050
35°	6112	5998	5979
40°	6050	5929	5929
45°	5984	5853	5831
50°	5884	5763	5739
55°	5729	5594	5567
60°	5611	5456	5425
65°	5465	5318	5281
70°	5302	5212	5348
75°	5151	4911	4911
80°	4819	4731	4553
85°	4446	4267	4267

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5984 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.7	3.3
10°-20°	629.6	9.4
20°-30°	952.6	14.2
30°-40°	1147.8	17.1
40°-50°	1191.9	17.8
50°-60°	1073.3	16.0
60°-70°	829.4	12.4
70°-80°	505.3	7.5
80°-90°	156.2	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°	1801.8	26.9
0°-40°	2949.6	44.0
0°-60°	5214.9	77.8
0°-90°	6705.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6705.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2310	2310	2310	2310	2310	
5°	2316	2310	2304	2304	2310	220
15°	2241	2235	2223	2223	2229	633
25°	2085	2079	2062	2056	2062	961
35°	1860	1849	1826	1820	1820	1163
45°	1572	1561	1538	1532	1532	1212
55°	1221	1210	1192	1187	1187	1097
65°	858	841	835	824	829	851
75°	495	478	472	467	472	520
85°	144	144	138	132	138	163
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2309.7	2309.7	2309.7	2309.7	2309.7
2.5°	2327.0	2327.0	2321.3	2321.3	2321.3
5°	2315.5	2309.7	2304.0	2304.0	2309.7
7.5°	2304.0	2304.0	2292.5	2292.5	2304.0
10°	2292.5	2286.7	2280.9	2280.9	2286.7
12.5°	2269.4	2263.7	2252.2	2252.2	2257.9
15°	2240.6	2234.9	2223.4	2223.4	2229.1
17.5°	2211.8	2206.1	2194.6	2194.6	2200.3
20°	2171.5	2165.8	2154.2	2148.5	2154.2
22.5°	2131.2	2125.4	2108.2	2102.4	2108.2
25°	2085.1	2079.4	2062.1	2056.3	2062.1
27.5°	2033.3	2027.5	2010.2	2004.5	2010.2
30°	1981.4	1969.9	1952.6	1941.1	1946.9
32.5°	1923.8	1912.3	1889.3	1883.5	1889.3
35°	1860.5	1849.0	1825.9	1820.2	1820.2
37.5°	1791.4	1785.6	1762.6	1756.8	1762.6
40°	1722.2	1710.7	1687.7	1681.9	1687.7
42.5°	1647.4	1635.8	1612.8	1612.8	1612.8
45°	1572.5	1561.0	1537.9	1532.2	1532.2
47.5°	1491.8	1480.3	1457.3	1451.5	1451.5
50°	1405.4	1393.9	1376.6	1370.9	1370.9
52.5°	1324.8	1307.5	1284.5	1278.7	1278.7
55°	1221.1	1209.6	1192.3	1186.6	1186.6
57.5°	1134.7	1117.4	1105.9	1094.4	1094.4
60°	1042.6	1025.3	1013.8	1008.0	1008.0
62.5°	956.2	933.1	921.6	915.8	921.6
65°	858.2	841.0	835.2	823.7	829.4
67.5°	766.1	748.8	743.0	743.0	754.6
70°	673.9	656.6	662.4	645.1	679.7
72.5°	581.8	570.2	570.2	553.0	570.2
75°	495.4	478.1	472.3	466.6	472.3
77.5°	403.2	397.4	391.7	380.2	385.9
80°	311.0	322.6	305.3	288.0	293.8
82.5°	230.4	224.6	213.1	207.4	213.1
85°	144.0	144.0	138.2	132.5	138.2
87.5°	69.1	69.1	63.4	63.4	69.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)