

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: P601344

Luminaire Tested: 14CGSB-70-L840

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601344
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-70-L840
Description: 1x4 CGSB AT 7000lm 4000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

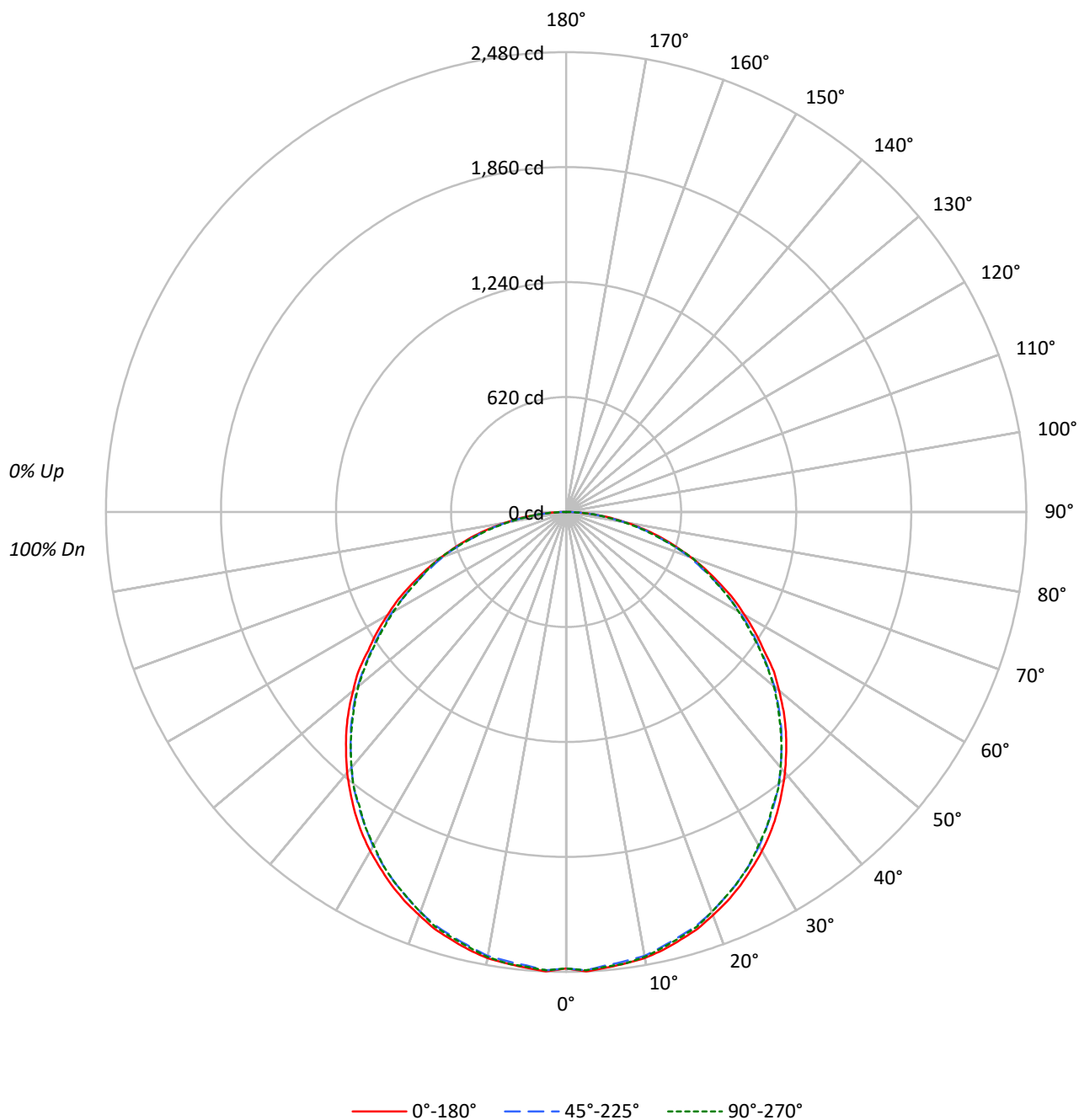
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7145.2 lumens
Efficiency: N/A
Efficacy: 95.5 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): 74.8
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°	6623	6623	6623
5°	6665	6632	6648
10°	6675	6641	6658
15°	6651	6600	6617
20°	6626	6573	6573
25°	6597	6524	6524
30°	6560	6465	6446
35°	6512	6391	6371
40°	6446	6317	6317
45°	6376	6236	6213
50°	6269	6141	6115
55°	6104	5960	5932
60°	5979	5814	5780
65°	5823	5666	5628
70°	5650	5553	5698
75°	5488	5233	5233
80°	5136	5041	4850
85°	4736	4548	4548

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6376 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.0	3.3
10°-20°	670.8	9.4
20°-30°	1015.0	14.2
30°-40°	1223.0	17.1
40°-50°	1270.0	17.8
50°-60°	1143.7	16.0
60°-70°	883.7	12.4
70°-80°	538.5	7.5
80°-90°	166.5	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°	1919.8	26.9
0°-40°	3142.9	44.0
0°-60°	5556.5	77.8
0°-90°	7145.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7145.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2461	2461	2461	2461	2461	
5°	2467	2461	2455	2455	2461	235
15°	2388	2381	2369	2369	2375	674
25°	2222	2216	2197	2191	2197	1024
35°	1982	1970	1946	1939	1939	1240
45°	1676	1663	1639	1632	1632	1291
55°	1301	1289	1270	1264	1264	1169
65°	914	896	890	878	884	907
75°	528	509	503	497	503	554
85°	153	153	147	141	147	174
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2461.1	2461.1	2461.1	2461.1	2461.1
2.5°	2479.5	2479.5	2473.4	2473.4	2473.4
5°	2467.2	2461.1	2455.0	2455.0	2461.1
7.5°	2455.0	2455.0	2442.7	2442.7	2455.0
10°	2442.7	2436.5	2430.4	2430.4	2436.5
12.5°	2418.1	2412.0	2399.7	2399.7	2405.9
15°	2387.5	2381.3	2369.0	2369.0	2375.2
17.5°	2356.8	2350.6	2338.4	2338.4	2344.5
20°	2313.8	2307.7	2295.4	2289.3	2295.4
22.5°	2270.8	2264.7	2246.3	2240.2	2246.3
25°	2221.7	2215.6	2197.2	2191.1	2197.2
27.5°	2166.5	2160.4	2142.0	2135.8	2142.0
30°	2111.3	2099.0	2080.6	2068.3	2074.4
32.5°	2049.9	2037.6	2013.1	2006.9	2013.1
35°	1982.4	1970.1	1945.6	1939.4	1939.4
37.5°	1908.7	1902.6	1878.0	1871.9	1878.0
40°	1835.1	1822.8	1798.3	1792.1	1798.3
42.5°	1755.3	1743.0	1718.5	1718.5	1718.5
45°	1675.5	1663.2	1638.7	1632.5	1632.5
47.5°	1589.6	1577.3	1552.8	1546.6	1546.6
50°	1497.5	1485.3	1466.8	1460.7	1460.7
52.5°	1411.6	1393.2	1368.6	1362.5	1362.5
55°	1301.1	1288.9	1270.4	1264.3	1264.3
57.5°	1209.1	1190.7	1178.4	1166.1	1166.1
60°	1110.9	1092.5	1080.2	1074.0	1074.0
62.5°	1018.8	994.3	982.0	975.8	982.0
65°	914.5	896.1	889.9	877.6	883.8
67.5°	816.3	797.9	791.7	791.7	804.0
70°	718.1	699.7	705.8	687.4	724.2
72.5°	619.9	607.6	607.6	589.2	607.6
75°	527.8	509.4	503.3	497.1	503.3
77.5°	429.6	423.5	417.3	405.1	411.2
80°	331.4	343.7	325.3	306.9	313.0
82.5°	245.5	239.4	227.1	220.9	227.1
85°	153.4	153.4	147.3	141.2	147.3
87.5°	73.6	73.6	67.5	67.5	73.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)