

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: P601272

Luminaire Tested: 14CGSB-20-L840

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601272
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-20-L840
Description: 1x4 CGSB AT 2000lm 4000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

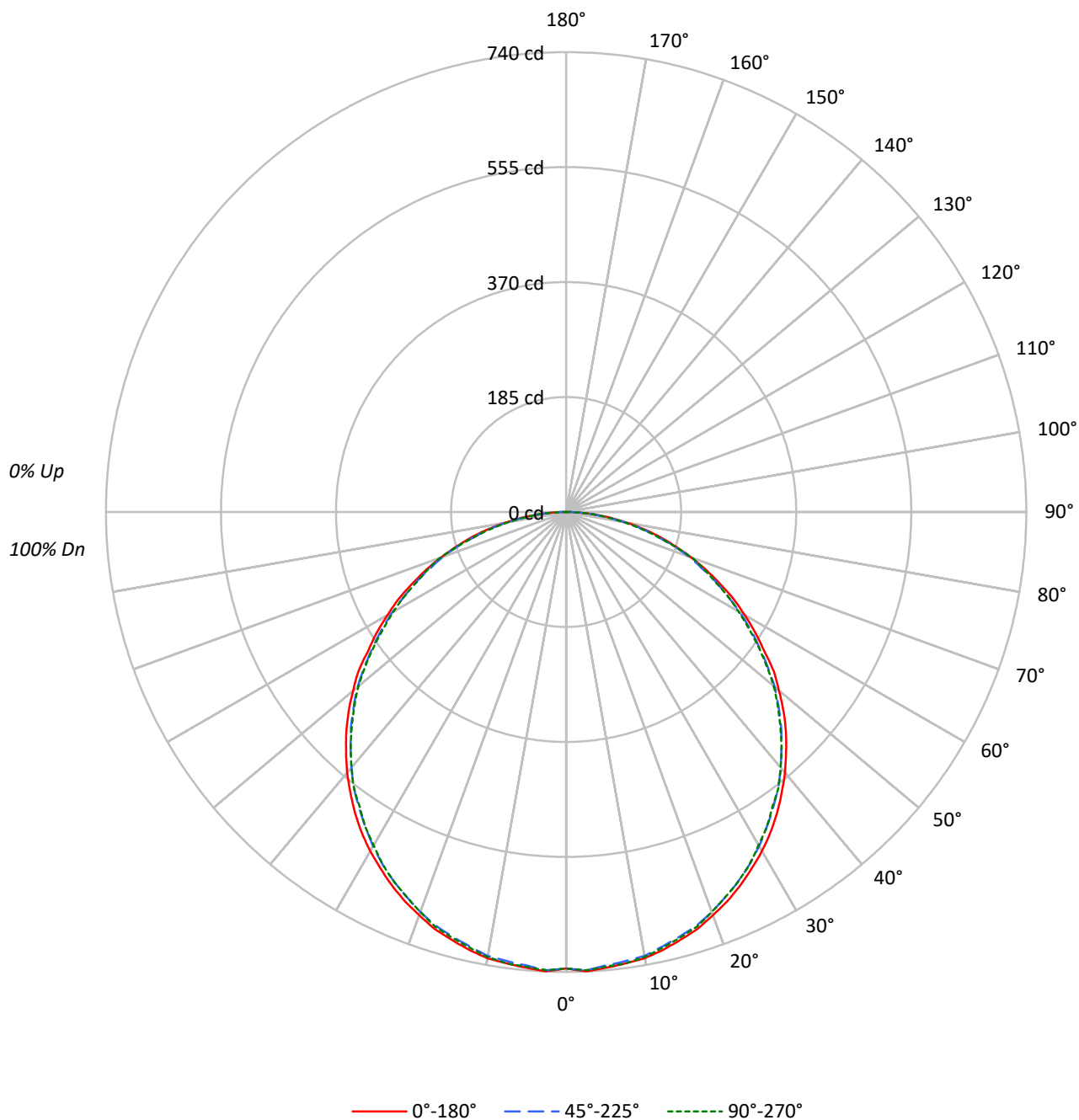
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2132.0 lumens
Efficiency: N/A
Efficacy: 94.8 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): 22.5
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
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°	1976	1976	1976
5°	1989	1979	1984
10°	1992	1982	1987
15°	1985	1969	1974
20°	1977	1961	1961
25°	1968	1947	1947
30°	1958	1929	1923
35°	1943	1907	1901
40°	1924	1885	1885
45°	1902	1861	1854
50°	1870	1832	1824
55°	1821	1779	1770
60°	1784	1735	1725
65°	1738	1691	1679
70°	1686	1657	1700
75°	1638	1562	1562
80°	1533	1505	1447
85°	1414	1359	1359

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1902 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.8	3.3
10°-20°	200.2	9.4
20°-30°	302.9	14.2
30°-40°	364.9	17.1
40°-50°	378.9	17.8
50°-60°	341.2	16.0
60°-70°	263.7	12.4
70°-80°	160.7	7.5
80°-90°	49.7	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°	572.8	26.9
0°-40°	937.8	44.0
0°-60°	1658.0	77.8
0°-90°	2132.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2132.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	734	734	734	734	734	
5°	736	734	732	732	734	70
15°	712	710	707	707	709	201
25°	663	661	656	654	656	305
35°	592	588	580	579	579	370
45°	500	496	489	487	487	385
55°	388	385	379	377	377	349
65°	273	267	266	262	264	271
75°	158	152	150	148	150	165
85°	46	46	44	42	44	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	734.3	734.3	734.3	734.3	734.3
2.5°	739.8	739.8	738.0	738.0	738.0
5°	736.2	734.3	732.5	732.5	734.3
7.5°	732.5	732.5	728.9	728.9	732.5
10°	728.9	727.0	725.2	725.2	727.0
12.5°	721.5	719.7	716.0	716.0	717.9
15°	712.4	710.5	706.9	706.9	708.7
17.5°	703.2	701.4	697.7	697.7	699.6
20°	690.4	688.6	684.9	683.1	684.9
22.5°	677.6	675.7	670.3	668.4	670.3
25°	662.9	661.1	655.6	653.8	655.6
27.5°	646.4	644.6	639.1	637.3	639.1
30°	630.0	626.3	620.8	617.1	619.0
32.5°	611.6	608.0	600.7	598.8	600.7
35°	591.5	587.8	580.5	578.7	578.7
37.5°	569.5	567.7	560.4	558.5	560.4
40°	547.6	543.9	536.6	534.7	536.6
42.5°	523.7	520.1	512.8	512.8	512.8
45°	499.9	496.3	489.0	487.1	487.1
47.5°	474.3	470.6	463.3	461.5	461.5
50°	446.8	443.2	437.7	435.8	435.8
52.5°	421.2	415.7	408.4	406.5	406.5
55°	388.2	384.6	379.1	377.2	377.2
57.5°	360.8	355.3	351.6	347.9	347.9
60°	331.5	326.0	322.3	320.5	320.5
62.5°	304.0	296.7	293.0	291.2	293.0
65°	272.9	267.4	265.5	261.9	263.7
67.5°	243.6	238.1	236.2	236.2	239.9
70°	214.3	208.8	210.6	205.1	216.1
72.5°	185.0	181.3	181.3	175.8	181.3
75°	157.5	152.0	150.2	148.3	150.2
77.5°	128.2	126.4	124.5	120.9	122.7
80°	98.9	102.6	97.1	91.6	93.4
82.5°	73.3	71.4	67.8	65.9	67.8
85°	45.8	45.8	44.0	42.1	44.0
87.5°	22.0	22.0	20.1	20.1	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)