

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: P601285

Luminaire Tested: 14CGSB-25-L950

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601285
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-25-L950
Description: 1x4 CGSB AT 2500lm 5000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

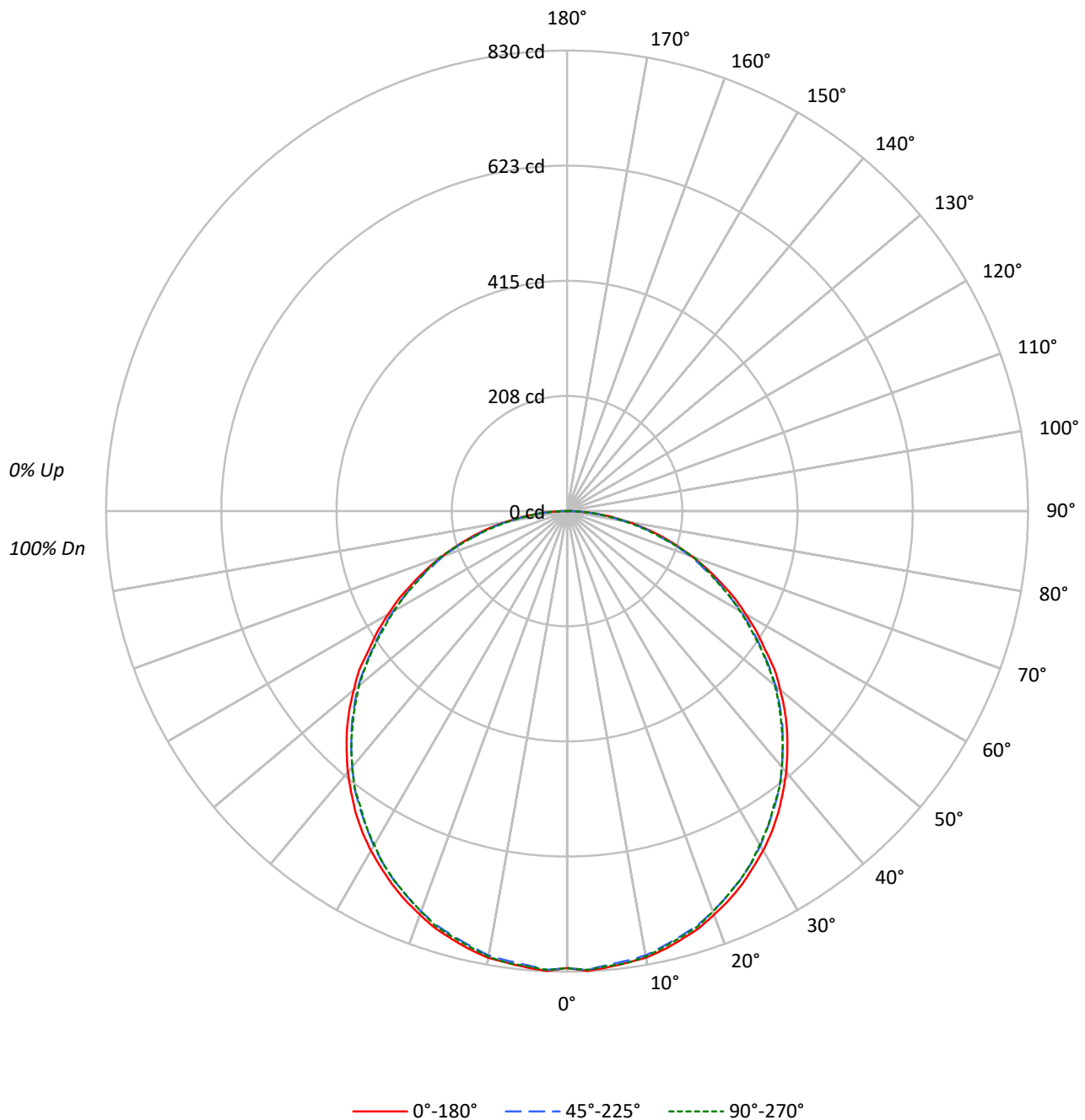
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2390.4 lumens
Efficiency: N/A
Efficacy: 83.6 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): 28.6
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

TEST NUMBER: P601285
CATALOG NUMBER: 14CGSB-25-L950

Luminous Intensity Polar Plot



TEST NUMBER: P601285

CATALOG NUMBER: 14CGSB-25-L950

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°	2215	2215	2215
5°	2230	2219	2224
10°	2233	2222	2227
15°	2225	2208	2214
20°	2217	2199	2199
25°	2207	2182	2182
30°	2195	2163	2156
35°	2179	2138	2131
40°	2157	2113	2113
45°	2133	2086	2078
50°	2097	2054	2046
55°	2042	1994	1985
60°	2000	1945	1934
65°	1948	1896	1883
70°	1890	1858	1906
75°	1836	1751	1751
80°	1719	1686	1623
85°	1584	1522	1522

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2133 cd/sqm

TEST NUMBER: P601285
 CATALOG NUMBER: 14CGSB-25-L950

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.3	3.3
10°-20°	224.4	9.4
20°-30°	339.5	14.2
30°-40°	409.2	17.1
40°-50°	424.9	17.8
50°-60°	382.6	16.0
60°-70°	295.6	12.4
70°-80°	180.1	7.5
80°-90°	55.7	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°	642.3	26.9
0°-40°	1051.4	44.0
0°-60°	1858.9	77.8
0°-90°	2390.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2390.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	823	823	823	823	823	
5°	825	823	821	821	823	79
15°	799	797	792	792	795	226
25°	743	741	735	733	735	343
35°	663	659	651	649	649	415
45°	560	556	548	546	546	432
55°	435	431	425	423	423	391
65°	306	300	298	294	296	303
75°	177	170	168	166	168	185
85°	51	51	49	47	49	58
90°	0	0	0	0	0	

TEST NUMBER: P601285

CATALOG NUMBER: 14CGSB-25-L950

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	823.3	823.3	823.3	823.3	823.3
2.5°	829.5	829.5	827.4	827.4	827.4
5°	825.4	823.3	821.3	821.3	823.3
7.5°	821.3	821.3	817.2	817.2	821.3
10°	817.2	815.1	813.1	813.1	815.1
12.5°	809.0	806.9	802.8	802.8	804.8
15°	798.7	796.6	792.5	792.5	794.6
17.5°	788.4	786.4	782.3	782.3	784.3
20°	774.1	772.0	767.9	765.8	767.9
22.5°	759.7	757.6	751.5	749.4	751.5
25°	743.3	741.2	735.0	733.0	735.0
27.5°	724.8	722.7	716.6	714.5	716.6
30°	706.3	702.2	696.0	691.9	694.0
32.5°	685.8	681.7	673.4	671.4	673.4
35°	663.2	659.1	650.9	648.8	648.8
37.5°	638.5	636.5	628.3	626.2	628.3
40°	613.9	609.8	601.6	599.5	601.6
42.5°	587.2	583.1	574.9	574.9	574.9
45°	560.5	556.4	548.2	546.1	546.1
47.5°	531.8	527.7	519.5	517.4	517.4
50°	501.0	496.9	490.7	488.7	488.7
52.5°	472.2	466.1	457.9	455.8	455.8
55°	435.3	431.2	425.0	423.0	423.0
57.5°	404.5	398.3	394.2	390.1	390.1
60°	371.6	365.5	361.4	359.3	359.3
62.5°	340.8	332.6	328.5	326.5	328.5
65°	305.9	299.8	297.7	293.6	295.7
67.5°	273.1	266.9	264.9	264.9	269.0
70°	240.2	234.1	236.1	230.0	242.3
72.5°	207.4	203.3	203.3	197.1	203.3
75°	176.6	170.4	168.4	166.3	168.4
77.5°	143.7	141.7	139.6	135.5	137.6
80°	110.9	115.0	108.8	102.7	104.7
82.5°	82.1	80.1	76.0	73.9	76.0
85°	51.3	51.3	49.3	47.2	49.3
87.5°	24.6	24.6	22.6	22.6	24.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)