

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: P601310

Luminaire Tested: 14CGSB-45-L830

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601310
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-L830
Description: 1x4 CGSB AT 4500lm 3000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

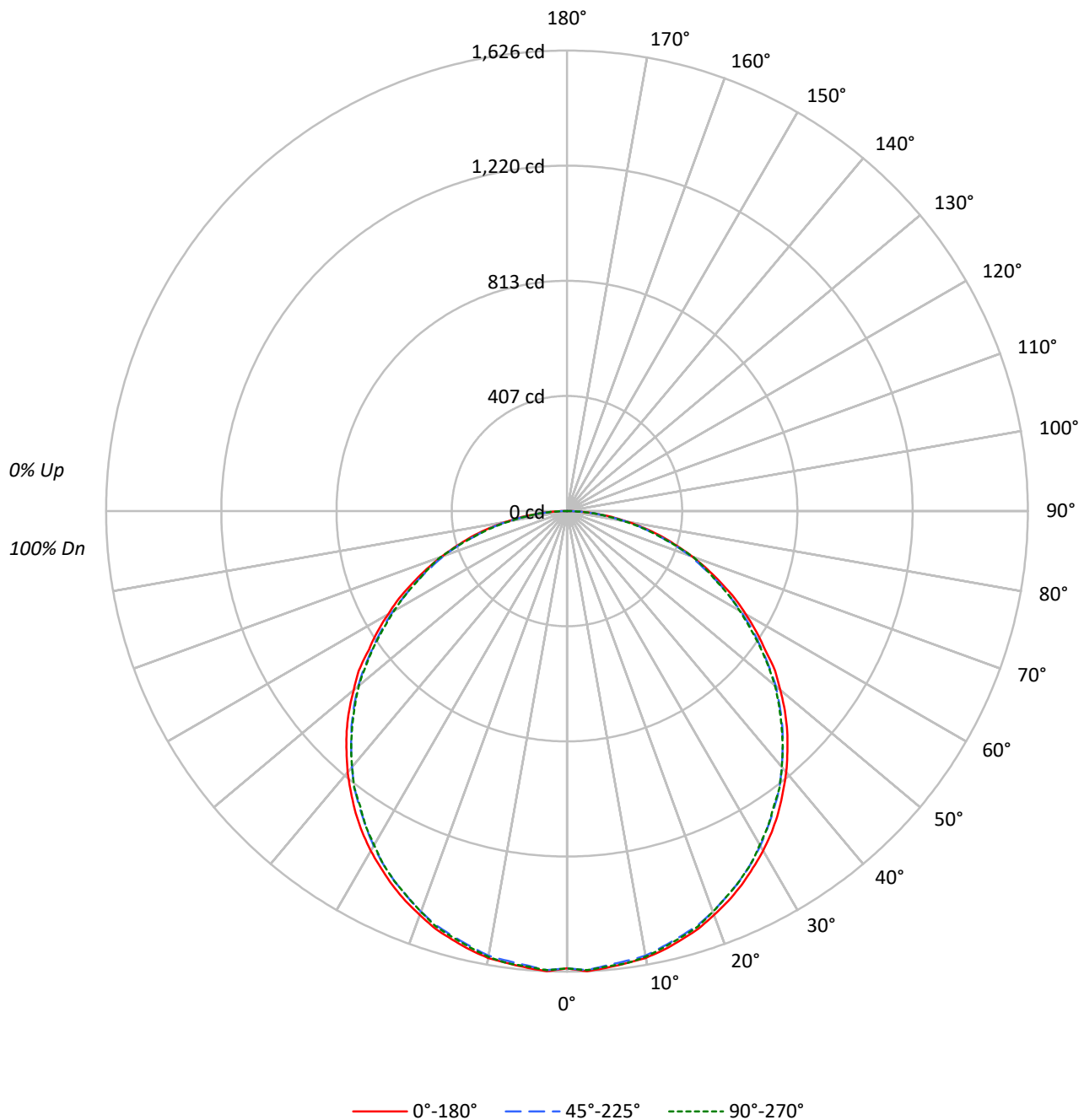
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4685.5 lumens
Efficiency: N/A
Efficacy: 94.7 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
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°	4343	4343	4343
5°	4370	4349	4360
10°	4377	4355	4366
15°	4362	4328	4339
20°	4345	4310	4310
25°	4326	4278	4278
30°	4302	4240	4227
35°	4271	4191	4178
40°	4227	4142	4142
45°	4181	4090	4074
50°	4111	4027	4010
55°	4003	3909	3890
60°	3921	3812	3791
65°	3819	3716	3691
70°	3705	3641	3736
75°	3598	3431	3431
80°	3367	3305	3181
85°	3106	2983	2983

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4181 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.5	3.3
10°-20°	439.9	9.4
20°-30°	665.6	14.2
30°-40°	802.0	17.1
40°-50°	832.8	17.8
50°-60°	750.0	16.0
60°-70°	579.5	12.4
70°-80°	353.1	7.5
80°-90°	109.2	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°	1259.0	26.9
0°-40°	2061.0	44.0
0°-60°	3643.8	77.8
0°-90°	4685.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4685.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1614	1614	1614	1614	1614	
5°	1618	1614	1610	1610	1614	154
15°	1566	1562	1554	1554	1558	442
25°	1457	1453	1441	1437	1441	671
35°	1300	1292	1276	1272	1272	813
45°	1099	1091	1075	1071	1071	847
55°	853	845	833	829	829	766
65°	600	588	584	576	580	595
75°	346	334	330	326	330	364
85°	101	101	97	93	97	114
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1613.9	1613.9	1613.9	1613.9	1613.9
2.5°	1626.0	1626.0	1622.0	1622.0	1622.0
5°	1617.9	1613.9	1609.9	1609.9	1613.9
7.5°	1609.9	1609.9	1601.8	1601.8	1609.9
10°	1601.8	1597.8	1593.8	1593.8	1597.8
12.5°	1585.7	1581.7	1573.7	1573.7	1577.7
15°	1565.6	1561.6	1553.5	1553.5	1557.6
17.5°	1545.5	1541.5	1533.4	1533.4	1537.4
20°	1517.3	1513.3	1505.2	1501.2	1505.2
22.5°	1489.1	1485.1	1473.0	1469.0	1473.0
25°	1456.9	1452.9	1440.8	1436.8	1440.8
27.5°	1420.7	1416.7	1404.6	1400.6	1404.6
30°	1384.5	1376.4	1364.4	1356.3	1360.3
32.5°	1344.2	1336.2	1320.1	1316.1	1320.1
35°	1300.0	1291.9	1275.8	1271.8	1271.8
37.5°	1251.7	1247.7	1231.6	1227.5	1231.6
40°	1203.4	1195.3	1179.2	1175.2	1179.2
42.5°	1151.1	1143.0	1126.9	1126.9	1126.9
45°	1098.7	1090.7	1074.6	1070.6	1070.6
47.5°	1042.4	1034.3	1018.2	1014.2	1014.2
50°	982.0	974.0	961.9	957.9	957.9
52.5°	925.7	913.6	897.5	893.5	893.5
55°	853.2	845.2	833.1	829.1	829.1
57.5°	792.9	780.8	772.7	764.7	764.7
60°	728.5	716.4	708.3	704.3	704.3
62.5°	668.1	652.0	644.0	639.9	644.0
65°	599.7	587.6	583.6	575.5	579.6
67.5°	535.3	523.2	519.2	519.2	527.2
70°	470.9	458.8	462.8	450.8	474.9
72.5°	406.5	398.4	398.4	386.4	398.4
75°	346.1	334.0	330.0	326.0	330.0
77.5°	281.7	277.7	273.7	265.6	269.7
80°	217.3	225.4	213.3	201.2	205.3
82.5°	161.0	157.0	148.9	144.9	148.9
85°	100.6	100.6	96.6	92.6	96.6
87.5°	48.3	48.3	44.3	44.3	48.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)