

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: P601305

Luminaire Tested: 14CGSB-40-L850

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601305
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-40-L850
Description: 1x4 CGSB AT 4000lm 5000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

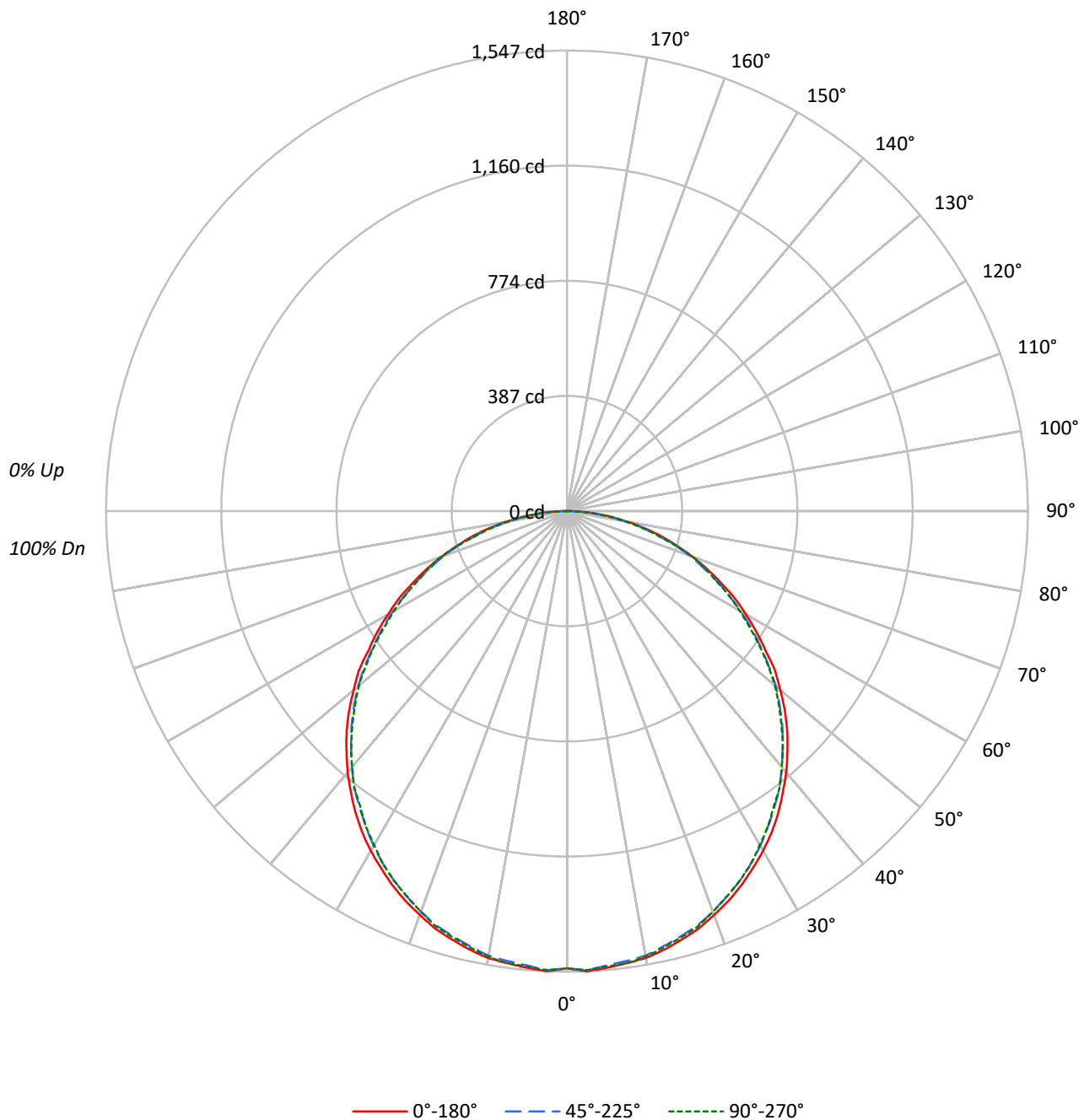
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4458.0 lumens
Efficiency: N/A
Efficacy: 100.9 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): 44.2
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	100		
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83		
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69		
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58		
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49		
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43		
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37		
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33		
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4132	4132	4132
5°	4158	4138	4148
10°	4164	4144	4154
15°	4150	4118	4128
20°	4134	4101	4101
25°	4116	4070	4070
30°	4093	4034	4022
35°	4063	3988	3975
40°	4022	3941	3941
45°	3978	3891	3876
50°	3911	3831	3816
55°	3809	3719	3701
60°	3730	3627	3606
65°	3633	3535	3511
70°	3525	3465	3556
75°	3424	3265	3265
80°	3205	3146	3027
85°	2955	2837	2837

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3978 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.0	3.3
10°-20°	418.5	9.4
20°-30°	633.3	14.2
30°-40°	763.1	17.1
40°-50°	792.4	17.8
50°-60°	713.6	16.0
60°-70°	551.4	12.4
70°-80°	336.0	7.5
80°-90°	103.9	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°	1197.8	26.9
0°-40°	1960.9	44.0
0°-60°	3466.9	77.8
0°-90°	4458.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4458.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1536	1536	1536	1536	1536	
5°	1539	1536	1532	1532	1536	146
15°	1490	1486	1478	1478	1482	421
25°	1386	1382	1371	1367	1371	639
35°	1237	1229	1214	1210	1210	773
45°	1045	1038	1022	1019	1019	806
55°	812	804	793	789	789	729
65°	571	559	555	548	551	566
75°	329	318	314	310	314	346
85°	96	96	92	88	92	108
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1535.5	1535.5	1535.5	1535.5	1535.5
2.5°	1547.0	1547.0	1543.2	1543.2	1543.2
5°	1539.4	1535.5	1531.7	1531.7	1535.5
7.5°	1531.7	1531.7	1524.0	1524.0	1531.7
10°	1524.0	1520.2	1516.4	1516.4	1520.2
12.5°	1508.7	1504.9	1497.2	1497.2	1501.1
15°	1489.6	1485.8	1478.1	1478.1	1481.9
17.5°	1470.4	1466.6	1459.0	1459.0	1462.8
20°	1443.6	1439.8	1432.1	1428.3	1432.1
22.5°	1416.8	1413.0	1401.5	1397.7	1401.5
25°	1386.2	1382.4	1370.9	1367.0	1370.9
27.5°	1351.7	1347.9	1336.4	1332.6	1336.4
30°	1317.3	1309.6	1298.1	1290.5	1294.3
32.5°	1279.0	1271.3	1256.0	1252.2	1256.0
35°	1236.9	1229.2	1213.9	1210.0	1210.0
37.5°	1190.9	1187.1	1171.8	1167.9	1171.8
40°	1145.0	1137.3	1122.0	1118.1	1122.0
42.5°	1095.2	1087.5	1072.2	1072.2	1072.2
45°	1045.4	1037.7	1022.4	1018.6	1018.6
47.5°	991.8	984.1	968.8	965.0	965.0
50°	934.3	926.7	915.2	911.4	911.4
52.5°	880.7	869.2	853.9	850.1	850.1
55°	811.8	804.1	792.7	788.8	788.8
57.5°	754.4	742.9	735.2	727.6	727.6
60°	693.1	681.6	674.0	670.1	670.1
62.5°	635.7	620.3	612.7	608.9	612.7
65°	570.6	559.1	555.2	547.6	551.4
67.5°	509.3	497.8	494.0	494.0	501.6
70°	448.0	436.5	440.4	428.9	451.9
72.5°	386.8	379.1	379.1	367.6	379.1
75°	329.3	317.8	314.0	310.2	314.0
77.5°	268.0	264.2	260.4	252.7	256.6
80°	206.8	214.4	203.0	191.5	195.3
82.5°	153.2	149.3	141.7	137.9	141.7
85°	95.7	95.7	91.9	88.1	91.9
87.5°	46.0	46.0	42.1	42.1	46.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)