

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: P601316

Luminaire Tested: 14CGSB-45-L940

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601316
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-L940
Description: 1x4 CGSB AT 4500lm 4000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

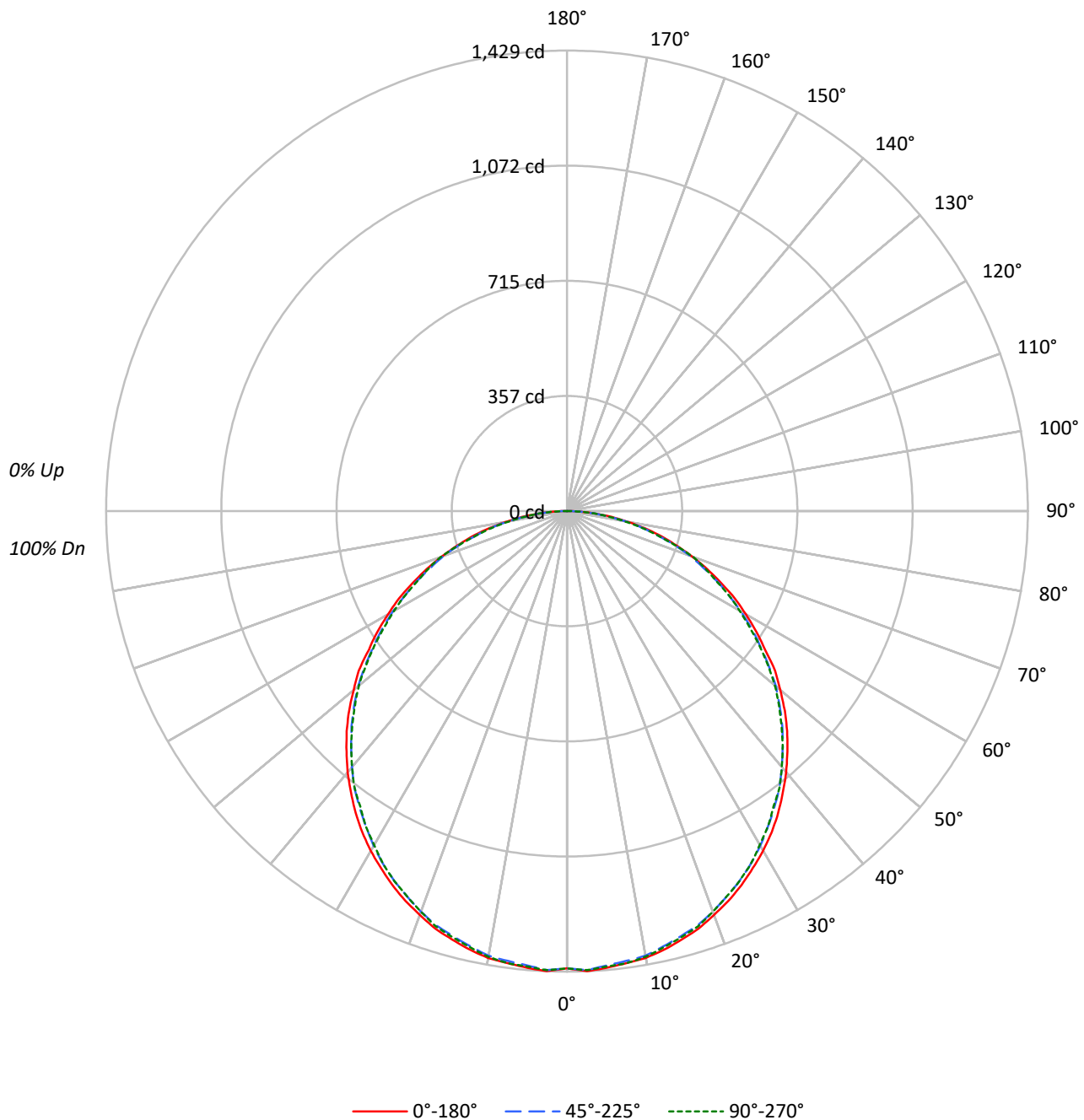
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4117.6 lumens
Efficiency: N/A
Efficacy: 83.2 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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CATALOG NUMBER: 14CGSB-45-L940

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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	108	103	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		37
7	64	51	42	36	63	50	42	36	48	41	35		47	40	35		33
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		29
9	56	43	34	29	55	42	34	29	41	33	28		40	33	28		26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3817	3817	3817
5°	3841	3821	3831
10°	3847	3827	3837
15°	3833	3803	3813
20°	3818	3788	3788
25°	3801	3760	3760
30°	3781	3726	3715
35°	3753	3683	3671
40°	3715	3640	3640
45°	3675	3594	3580
50°	3613	3539	3524
55°	3518	3435	3418
60°	3446	3350	3331
65°	3356	3265	3243
70°	3256	3200	3283
75°	3163	3015	3015
80°	2960	2906	2796
85°	2729	2621	2621

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3675 cd/sqm

TEST NUMBER: P601316
 CATALOG NUMBER: 14CGSB-45-L940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.9	3.3
10°-20°	386.6	9.4
20°-30°	584.9	14.2
30°-40°	704.8	17.1
40°-50°	731.9	17.8
50°-60°	659.1	16.0
60°-70°	509.3	12.4
70°-80°	310.3	7.5
80°-90°	95.9	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°	1106.4	26.9
0°-40°	1811.2	44.0
0°-60°	3202.1	77.8
0°-90°	4117.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4117.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1418	1418	1418	1418	1418	
5°	1422	1418	1415	1415	1418	135
15°	1376	1372	1365	1365	1369	389
25°	1280	1277	1266	1263	1266	590
35°	1142	1135	1121	1118	1118	714
45°	966	958	944	941	941	744
55°	750	743	732	729	729	674
65°	527	516	513	506	509	523
75°	304	294	290	286	290	320
85°	88	88	85	81	85	100
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1418.3	1418.3	1418.3	1418.3	1418.3
2.5°	1428.9	1428.9	1425.4	1425.4	1425.4
5°	1421.8	1418.3	1414.7	1414.7	1418.3
7.5°	1414.7	1414.7	1407.7	1407.7	1414.7
10°	1407.7	1404.1	1400.6	1400.6	1404.1
12.5°	1393.5	1390.0	1382.9	1382.9	1386.4
15°	1375.8	1372.3	1365.2	1365.2	1368.8
17.5°	1358.2	1354.6	1347.5	1347.5	1351.1
20°	1333.4	1329.9	1322.8	1319.2	1322.8
22.5°	1308.6	1305.1	1294.5	1291.0	1294.5
25°	1280.3	1276.8	1266.2	1262.7	1266.2
27.5°	1248.5	1245.0	1234.4	1230.8	1234.4
30°	1216.7	1209.6	1199.0	1191.9	1195.5
32.5°	1181.3	1174.2	1160.1	1156.6	1160.1
35°	1142.4	1135.3	1121.2	1117.6	1117.6
37.5°	1100.0	1096.4	1082.3	1078.7	1082.3
40°	1057.5	1050.4	1036.3	1032.8	1036.3
42.5°	1011.5	1004.5	990.3	990.3	990.3
45°	965.6	958.5	944.3	940.8	940.8
47.5°	916.0	909.0	894.8	891.3	891.3
50°	863.0	855.9	845.3	841.8	841.8
52.5°	813.5	802.9	788.7	785.2	785.2
55°	749.8	742.7	732.1	728.6	728.6
57.5°	696.8	686.1	679.1	672.0	672.0
60°	640.2	629.6	622.5	618.9	618.9
62.5°	587.1	573.0	565.9	562.4	565.9
65°	527.0	516.4	512.8	505.8	509.3
67.5°	470.4	459.8	456.3	456.3	463.3
70°	413.8	403.2	406.7	396.1	417.3
72.5°	357.2	350.1	350.1	339.5	350.1
75°	304.2	293.6	290.0	286.5	290.0
77.5°	247.6	244.0	240.5	233.4	237.0
80°	191.0	198.1	187.5	176.8	180.4
82.5°	141.5	137.9	130.9	127.3	130.9
85°	88.4	88.4	84.9	81.3	84.9
87.5°	42.4	42.4	38.9	38.9	42.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)