Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: CORELITE

Report Number: P#

Luminaire Tested: 24D3X-LP-45-L950.ies

Issue Date: 12/21/2023

Test Information

Test Method:	LM-79-2019
Report Number:	P#
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2305-008-4)
Test Lab:	INNOVATION CENTER
Issue Date:	12/21/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	CORELITE
Catalog Number:	24D3X-LP-45-L950.ies
Description:	2x4 D3X-LP AT 4500LM 5000K 90CRI
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3701.3 lumens
Efficiency:	N/A
Efficacy:	112.2 lumens/watt
Spacing Criteria (0/90/45):	1.2 / 1.18 / 1.29
Luminous Opening:	Rectangular (W 2' x L: 4' x H: 0')
CIE Type:	Direct
Input Watts (W):	33
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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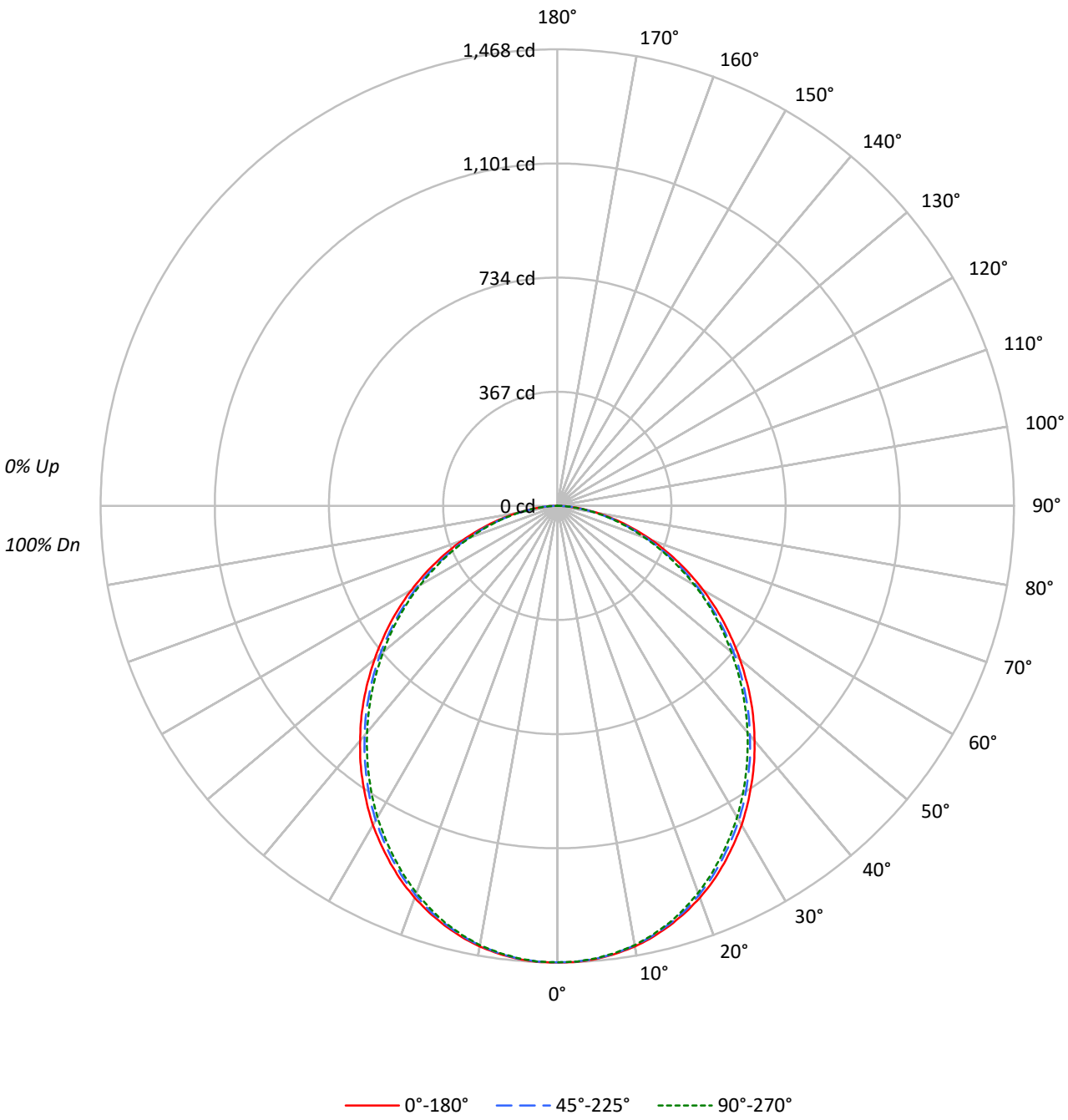
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1975	1975	1975
5°	1975	1973	1971
10°	1966	1961	1959
15°	1946	1939	1934
20°	1920	1907	1896
25°	1883	1863	1848
30°	1841	1813	1796
35°	1789	1755	1735
40°	1732	1692	1671
45°	1673	1625	1602
50°	1605	1555	1528
55°	1534	1480	1453
60°	1455	1397	1371
65°	1370	1306	1279
70°	1274	1206	1176
75°	1156	1091	1073
80°	1002	948	953
85°	826	815	761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 1673 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.7	3.7
10°-20°	392.4	10.6
20°-30°	578.3	15.6
30°-40°	669.4	18.1
40°-50°	660.9	17.9
50°-60°	566.1	15.3
60°-70°	409.3	11.1
70°-80°	225.6	6.1
80°-90°	60.7	1.6
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°	1109.3	30.0
0°-40°	1778.7	48.1
0°-60°	3005.7	81.2
0°-90°	3701.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3701.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1468	1468	1468	1468	1468	
5°	1462	1462	1461	1460	1460	139
15°	1397	1396	1392	1390	1389	394
25°	1268	1265	1255	1248	1245	584
35°	1089	1082	1068	1059	1056	681
45°	879	867	854	846	842	677
55°	654	642	631	622	619	585
65°	430	420	410	404	402	427
75°	222	216	210	209	206	236
85°	54	54	53	49	49	63
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1467.9*	*1467.9*	*1467.9*	*1467.9*	*1467.9*
2.5°	*1467.9*	1467.9	1466.6	1466.6	1466.6
5°	*1462.4*	1461.7	1461.0	1459.6	1459.6
7.5°	*1452.0*	1452.0	1449.9	1449.9	1448.5
10°	*1438.7*	1437.4	1435.3	1435.3	1433.9
12.5°	*1420.0*	1418.6	1415.8	1415.1	1413.0
15°	*1397.0*	1395.7	1392.2	1390.1	1388.7
17.5°	*1370.6*	1368.5	1364.4	1360.9	1358.1
20°	*1340.7*	1338.0	1331.7	1327.5	1324.1
22.5°	*1306.7*	1303.9	1294.9	1290.0	1286.5
25°	*1268.5*	1265.0	1254.6	1248.3	1244.8
27.5°	*1227.5*	1223.3	1211.5	1204.5	1201.0
30°	*1185.1*	1178.8	1167.0	1158.6	1155.9
32.5°	*1137.8*	1131.5	1119.7	1110.0	1107.2
35°	*1089.1*	1082.2	1068.3	1059.3	1056.5
37.5°	*1039.1*	1030.1	1017.5	1008.5	1004.3
40°	*986.3*	977.2	963.3	953.6	951.5
42.5°	*933.4*	922.3	910.5	900.8	896.6
45°	*879.2*	867.4	854.2	845.9	841.7
47.5°	*822.2*	811.1	799.3	789.6	786.1
50°	*766.6*	754.8	743.0	734.0	729.8
52.5°	*709.6*	697.8	686.7	679.1	674.9
55°	*654.0*	641.5	631.1	622.1	619.3
57.5°	*597.7*	586.6	574.8	566.5	564.4
60°	*540.7*	531.0	519.2	511.6	509.5
62.5°	*485.8*	476.1	465.0	457.3	453.9
65°	*430.2*	420.5	410.1	403.8	401.7
67.5°	*376.0*	367.0	357.9	351.7	350.3
70°	*323.9*	314.9	306.5	301.0	298.9
72.5°	*271.8*	265.5	257.2	253.7	251.6
75°	*222.4*	215.5	209.9	209.2	206.4
77.5°	*174.5*	173.8	164.7	163.3	163.3
80°	*129.3*	127.2	122.3	120.9	123.0
82.5°	*89.0*	87.6	84.8	84.1	83.4
85°	*53.5*	53.5	52.8	49.3	49.3
87.5°	*24.3*	23.6	22.9	23.6	25.7
90°	*0.0*	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
	Ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
	Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
	Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	13.4	15.0	13.8	15.3	15.7	13.2	14.8	13.5	15.1	15.4
	3H	15.1	16.6	15.5	16.9	17.2	14.8	16.2	15.2	16.6	16.9
	4H	15.7	17.1	16.1	17.4	17.8	15.4	16.7	15.8	17.1	17.5
	6H	16.2	17.4	16.6	17.8	18.2	15.8	17.1	16.2	17.4	17.8
	8H	16.3	17.5	16.7	17.9	18.3	16.0	17.2	16.4	17.5	17.9
	12H	16.4	17.5	16.8	17.9	18.4	16.0	17.2	16.5	17.6	18.0
4H	2H	14.0	15.3	14.4	15.7	16.1	13.8	15.1	14.2	15.5	15.8
	3H	15.9	17.0	16.3	17.4	17.8	15.6	16.7	16.0	17.1	17.5
	4H	16.6	17.6	17.0	18.1	18.5	16.3	17.4	16.8	17.8	18.2
	6H	17.2	18.1	17.6	18.5	19.0	16.9	17.8	17.3	18.2	18.7
	8H	17.4	18.2	17.8	18.6	19.1	17.1	17.9	17.5	18.3	18.8
	12H	17.5	18.2	18.0	18.7	19.2	17.2	17.9	17.7	18.4	18.9
8H	4H	16.9	17.7	17.3	18.2	18.6	16.6	17.5	17.1	17.9	18.4
	6H	17.6	18.2	18.0	18.7	19.2	17.3	18.0	17.8	18.5	18.9
	8H	17.8	18.4	18.3	18.9	19.4	17.5	18.1	18.0	18.6	19.1
	12H	18.0	18.5	18.5	19.0	19.6	17.7	18.2	18.2	18.7	19.3
12H	4H	16.9	17.6	17.4	18.1	18.6	16.6	17.4	17.1	17.9	18.3
	6H	17.6	18.2	18.1	18.7	19.2	17.3	18.0	17.9	18.4	19.0
	8H	17.9	18.4	18.4	18.9	19.5	17.6	18.2	18.1	18.7	19.2

(END OF REPORT)