

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: NEO-RAY

Report Number: P1008720

Luminaire Tested: S122DIP-B1005D725UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008720
REPORT IS A COMBINATION OF REPORTS P983757 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D725UB50-4F0-XX-W2A-F4
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

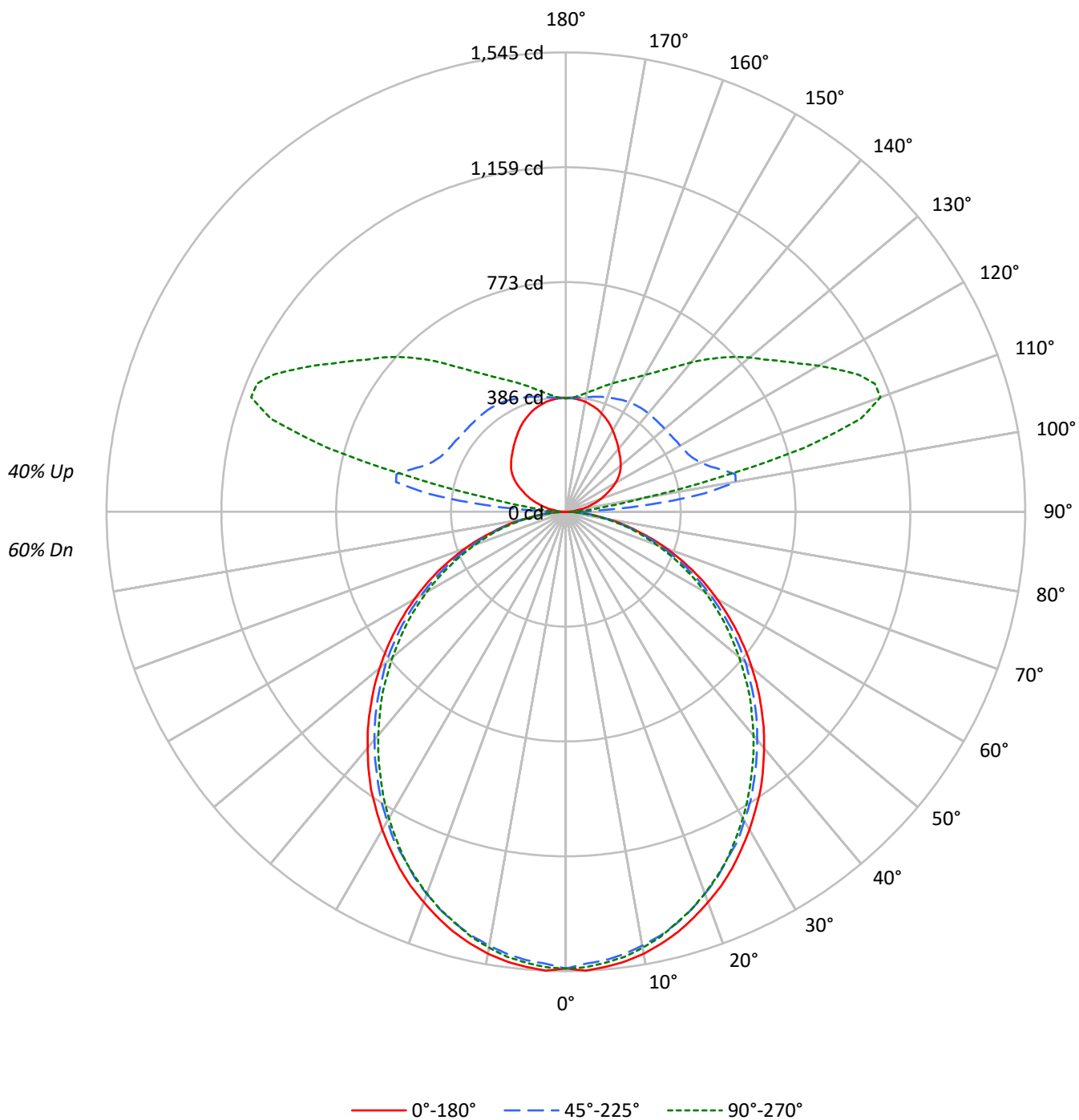
Lumens per Lamp: N/A
Luminaire Lumens: 6572.0 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 82.4
Input Voltage (V):
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				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65
1	100	96	92	88	93	89	86	83	78	75	73	67	65	64	57	56	55
2	91	83	77	72	85	78	73	68	68	64	60	59	56	53	50	48	46
3	83	73	66	60	77	69	62	57	60	55	51	52	48	45	45	42	39
4	76	65	57	51	71	61	54	48	53	48	43	47	42	39	40	37	34
5	70	58	50	44	65	55	47	42	48	42	37	42	37	33	36	32	30
6	64	52	44	38	60	49	42	36	43	37	33	38	33	29	33	29	26
7	60	47	39	33	55	44	37	32	39	33	29	34	30	26	30	26	23
8	55	43	35	30	52	40	33	28	36	30	26	32	27	23	27	24	21
9	52	39	32	26	48	37	30	25	33	27	23	29	24	21	25	22	19
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	24	20	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24315	24315	24315
5°	24355	23176	23013
10°	24156	22120	21681
15°	23803	21057	20282
20°	23324	19899	18956
25°	22848	18690	17633
30°	22249	17554	16243
35°	21683	16355	14879
40°	20984	15172	13589
45°	20289	13999	12325
50°	19533	12805	11011
55°	18732	11530	9770
60°	17837	10148	8477
65°	16854	8743	7118
70°	15608	7206	5748
75°	13879	5555	4439
80°	11792	3776	2857
85°	8560	1756	1216

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20289 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.6	2.2
10°-20°	406.8	6.2
20°-30°	597.8	9.1
30°-40°	694.3	10.6
40°-50°	693.4	10.6
50°-60°	604.6	9.2
60°-70°	446.9	6.8
70°-80°	252.9	3.8
80°-90°	69.2	1.1
90°-100°	154.7	2.4
100°-110°	523.2	8.0
110°-120°	549.9	8.4
120°-130°	452.2	6.9
130°-140°	363.4	5.5
140°-150°	274.5	4.2
150°-160°	193.0	2.9
160°-170°	113.6	1.7
170°-180°	37.0	0.6
0°-30°	1149.1	17.5
0°-40°	1843.4	28.0
0°-60°	3141.4	47.8
0°-90°	3910.4	59.5
90°-120°	1227.9	18.7
90°-150°	2318.0	35.3
90°-180°	2662.0	40.5
0°-180°	6572.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1536	1536	1536	1536	1536	
5°	1536	1530	1514	1526	1523	146
15°	1462	1453	1434	1440	1433	412
25°	1323	1312	1286	1289	1286	609
35°	1142	1127	1103	1094	1087	713
45°	929	919	896	880	874	717
55°	703	694	676	659	651	629
65°	474	465	450	437	430	469
75°	248	245	238	229	232	265
85°	61	59	58	53	52	67
90°	1	10	25	24	24	5
95°	26	63	288	109	84	27
105°	90	135	544	972	827	95
115°	158	199	455	939	1089	157
125°	220	261	438	761	883	196
135°	258	308	432	639	732	200
145°	295	339	430	534	584	185
155°	336	362	418	472	491	154
165°	366	377	400	424	431	103
175°	381	381	385	390	388	36
180°	382	382	382	382	382	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1536.1	1536.1	1536.1	1536.1	1536.1
2.5°	1544.9	1537.5	1521.3	1536.1	1533.1
5°	1536.1	1530.2	1513.9	1525.7	1522.8
7.5°	1525.7	1516.9	1500.6	1512.4	1509.5
10°	1509.5	1499.1	1481.4	1493.2	1488.8
12.5°	1487.3	1478.5	1460.7	1468.1	1465.2
15°	1462.2	1453.4	1434.2	1440.1	1432.7
17.5°	1431.2	1422.3	1403.1	1410.5	1403.1
20°	1397.2	1388.4	1367.7	1372.1	1366.2
22.5°	1363.3	1350.0	1330.8	1330.8	1327.8
25°	1323.4	1311.6	1286.5	1289.4	1286.5
27.5°	1279.1	1268.7	1249.5	1245.1	1237.7
30°	1234.8	1222.9	1200.8	1196.4	1190.5
32.5°	1187.5	1178.6	1155.0	1146.1	1140.2
35°	1141.7	1126.9	1103.3	1094.4	1087.1
37.5°	1090.0	1076.7	1053.1	1042.8	1035.4
40°	1036.8	1025.0	1001.4	988.1	982.2
42.5°	985.2	973.3	949.7	934.9	926.1
45°	929.0	918.7	896.5	880.3	874.4
47.5°	874.4	864.0	840.4	824.2	815.3
50°	816.8	809.4	788.7	768.0	760.6
52.5°	760.6	750.3	731.1	714.9	704.5
55°	703.0	694.2	676.5	658.7	651.4
57.5°	645.4	638.1	618.9	601.1	595.2
60°	587.8	581.9	561.3	545.0	540.6
62.5°	531.7	521.4	506.6	491.8	485.9
65°	474.1	465.3	450.5	437.2	429.8
67.5°	415.0	407.6	394.4	384.0	378.1
70°	360.4	354.5	341.2	330.8	324.9
72.5°	304.3	298.4	291.0	280.6	276.2
75°	248.1	245.2	237.8	228.9	231.9
77.5°	197.9	192.0	189.1	184.6	180.2
80°	147.7	146.2	143.3	138.8	135.9
82.5°	100.4	100.4	99.0	93.1	93.1
85°	60.6	59.1	57.6	53.2	51.7
87.5°	26.6	23.6	20.7	16.2	14.8
90°	0.7	9.9	25.0	23.8	24.2
92.5°	11.0	34.8	113.1	52.2	44.8
95°	25.7	63.1	287.8	108.6	83.7
97.5°	38.2	83.3	469.1	218.0	140.2
100°	56.5	102.0	580.0	434.2	262.8
102.5°	73.4	119.0	583.6	734.2	512.4
105°	89.6	135.1	544.0	972.4	827.4
107.5°	107.2	151.2	507.3	1058.6	1039.5
110°	124.8	167.8	482.3	1044.7	1126.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.0	183.5	466.2	997.3	1124.7
115°	157.8	199.3	455.2	939.3	1088.7
117.5°	175.5	215.1	449.3	883.9	1034.4
120°	191.6	230.5	444.2	834.4	982.3
122.5°	207.0	246.3	441.2	795.8	928.0
125°	220.2	260.6	437.5	761.0	883.2
127.5°	231.3	274.2	435.3	731.2	841.3
130°	240.8	286.3	433.9	701.1	806.8
132.5°	249.6	298.0	433.1	669.9	770.8
135°	258.4	308.4	432.4	639.4	731.9
137.5°	266.5	317.2	432.4	608.6	694.5
140°	276.0	325.2	431.7	581.4	655.6
142.5°	285.6	331.8	431.7	555.4	616.7
145°	295.1	339.2	430.2	534.0	584.4
147.5°	305.4	345.0	428.0	515.4	555.7
150°	315.7	350.9	425.8	499.2	530.8
152.5°	326.0	356.8	422.1	485.6	509.5
155°	335.5	362.3	417.7	472.4	491.1
157.5°	343.6	366.7	413.3	459.9	475.0
160°	351.7	371.1	408.9	447.4	459.6
162.5°	359.7	374.4	405.2	435.7	444.9
165°	365.6	376.6	400.1	424.4	430.9
167.5°	370.7	378.8	395.7	414.0	417.7
170°	375.9	379.9	392.0	404.5	406.0
172.5°	378.8	381.0	387.6	396.0	396.4
175°	381.0	381.4	384.7	389.5	388.4
177.5°	382.5	381.8	381.8	384.7	382.5
180°	381.8	381.8	381.8	381.8	381.8

(END OF REPORT)