

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: P1008716

Luminaire Tested: S122DIP-B1005D725UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008716
REPORT IS A COMBINATION OF REPORTS P983753 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-D1
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

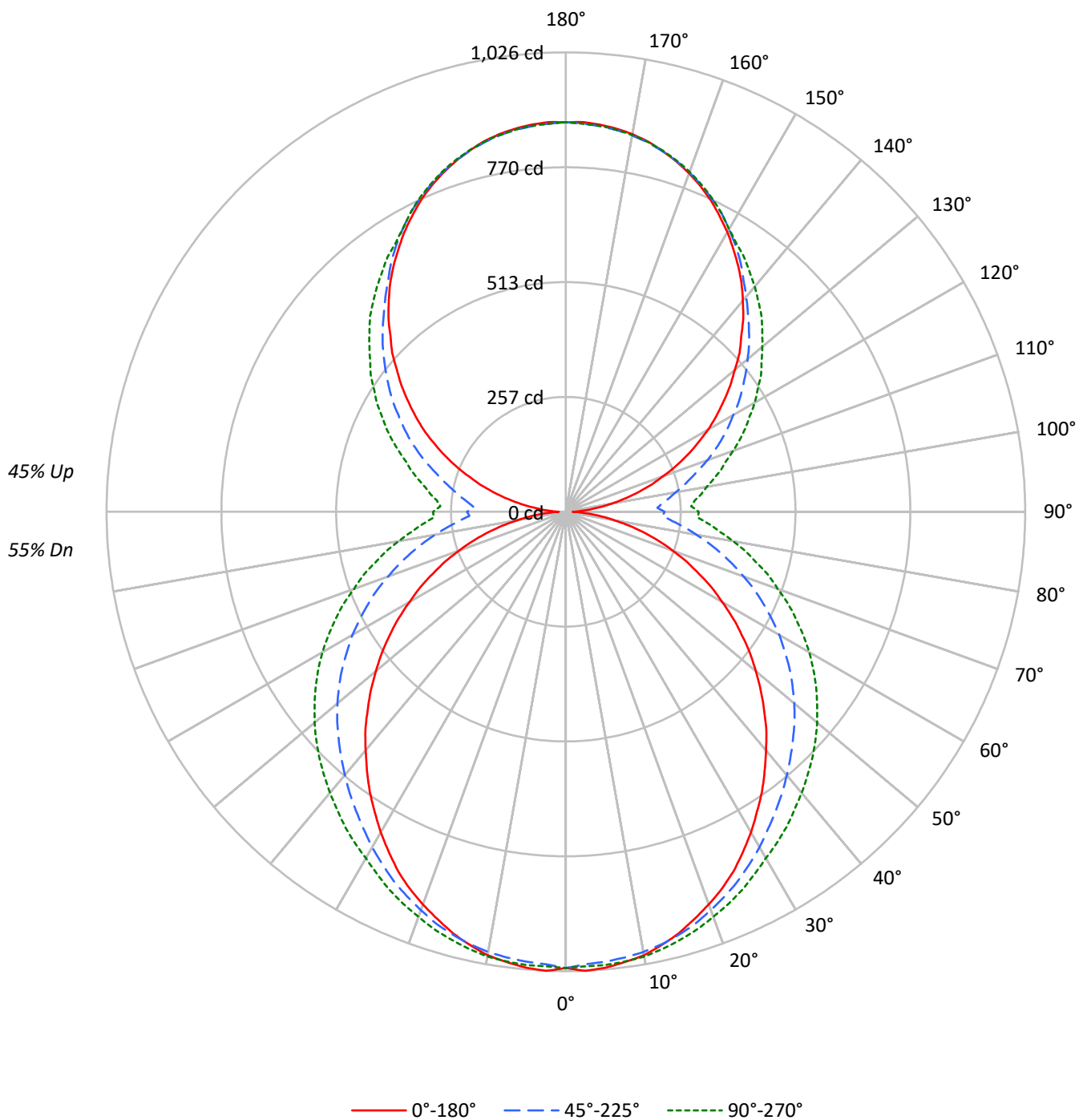
Lumens per Lamp: N/A
Luminaire Lumens: 6322.0 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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
RCR																	
0	108	108	108	108	100	100	100	100	86	86	86		73	73	73		60
1	97	92	88	83	90	85	81	78	73	70	67		61	59	57		51
2	88	80	73	67	81	74	68	63	63	58	54		53	50	46		44
3	80	69	61	55	73	64	57	52	55	49	45		46	42	39		38
4	73	61	53	46	67	57	49	43	49	43	38		41	36	33		34
5	67	54	46	39	61	50	43	37	43	37	32		37	32	28		30
6	61	48	40	34	56	45	37	32	39	33	28		33	28	24		27
7	57	44	35	29	52	41	33	28	35	29	25		30	25	21		25
8	52	40	31	26	48	37	30	25	32	26	22		27	22	19		23
9	49	36	28	23	45	34	27	22	29	23	19		25	20	17		21
10	46	33	26	21	42	31	24	20	27	21	17		23	19	15		20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16130	16130	16130
5°	16202	15441	15354
10°	16094	14906	14688
15°	15867	14353	14006
20°	15580	13772	13358
25°	15298	13216	12771
30°	14901	12651	12190
35°	14500	12105	11764
40°	14078	11634	11339
45°	13674	11207	10970
50°	13243	10813	10604
55°	12787	10395	10233
60°	12235	9958	9842
65°	11653	9457	9392
70°	11000	8921	8909
75°	10159	8383	8452
80°	8846	7821	7978
85°	7515	7294	7570

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13674 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	1.5
10°-20°	277.0	4.4
20°-30°	419.8	6.6
30°-40°	511.2	8.1
40°-50°	550.0	8.7
50°-60°	534.1	8.4
60°-70°	466.4	7.4
70°-80°	359.0	5.7
80°-90°	242.9	3.8
90°-100°	219.7	3.5
100°-110°	292.2	4.6
110°-120°	372.7	5.9
120°-130°	429.4	6.8
130°-140°	450.7	7.1
140°-150°	426.8	6.8
150°-160°	355.4	5.6
160°-170°	235.7	3.7
170°-180°	82.4	1.3
0°-30°	793.4	12.6
0°-40°	1304.6	20.6
0°-60°	2388.7	37.8
0°-90°	3457.0	54.7
90°-120°	884.5	14.0
90°-150°	2191.5	34.7
90°-180°	2865.0	45.3
0°-180°	6322.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1019	1019	1019	1019	1019	
5°	1022	1018	1009	1018	1016	97
15°	975	978	978	991	989	275
25°	886	896	910	927	932	407
35°	764	789	817	849	860	477
45°	626	666	718	764	778	483
55°	480	533	610	663	682	429
65°	328	400	487	548	567	326
75°	182	264	359	422	442	192
85°	53	145	239	301	322	56
90°	16	110	221	278	297	13
95°	50	127	217	273	289	52
105°	165	210	288	342	358	175
115°	300	320	385	429	443	296
125°	430	437	482	519	532	385
135°	554	562	578	609	618	429
145°	671	676	680	690	694	419
155°	767	769	771	775	773	353
165°	834	834	834	839	835	235
175°	868	866	865	870	865	82
180°	870	870	870	870	870	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1019.0	1019.0	1019.0	1019.0	1019.0
2.5°	1026.3	1021.9	1011.6	1019.0	1016.0
5°	1021.9	1017.5	1008.6	1017.5	1016.0
7.5°	1014.5	1011.6	1004.2	1014.5	1013.1
10°	1005.7	1002.7	998.3	1010.1	1008.6
12.5°	990.9	992.4	989.4	1001.2	999.8
15°	974.7	977.6	977.6	990.9	989.4
17.5°	954.0	959.9	964.3	977.6	977.6
20°	933.3	940.7	946.6	962.8	962.8
22.5°	911.2	920.0	928.9	945.1	948.1
25°	886.1	896.4	909.7	927.4	931.8
27.5°	856.5	872.8	887.5	909.7	912.6
30°	827.0	846.2	865.4	889.0	893.4
32.5°	794.5	816.6	840.3	868.3	877.2
35°	763.5	788.6	816.6	849.1	859.5
37.5°	729.5	757.6	793.0	828.5	838.8
40°	695.6	728.0	767.9	806.3	819.6
42.5°	663.1	695.6	742.8	785.6	798.9
45°	626.1	666.0	717.7	763.5	778.3
47.5°	590.7	633.5	692.6	739.9	756.1
50°	553.8	599.6	666.0	716.2	732.5
52.5°	518.3	567.1	638.0	689.6	707.4
55°	479.9	533.1	609.9	663.1	682.3
57.5°	443.0	502.1	578.9	636.5	655.7
60°	403.2	466.7	550.8	606.9	627.6
62.5°	367.7	434.2	518.3	578.9	598.1
65°	327.8	400.2	487.3	547.9	567.1
67.5°	292.4	367.7	456.3	516.9	537.5
70°	254.0	330.8	422.4	485.9	503.6
72.5°	218.6	298.3	391.3	453.4	475.5
75°	181.6	264.3	358.9	422.4	441.6
77.5°	146.2	231.9	327.8	391.3	412.0
80°	110.8	200.8	296.8	358.9	379.5
82.5°	81.2	169.8	267.3	329.3	348.5
85°	53.2	144.7	239.2	301.3	321.9
87.5°	32.5	121.1	215.6	276.2	295.4
90°	15.5	109.9	220.6	278.2	296.7
92.5°	29.4	113.6	204.4	262.7	280.5
95°	50.0	126.7	216.8	272.9	289.2
97.5°	74.2	144.3	232.9	287.5	305.3
100°	103.5	164.1	249.0	303.6	319.1
102.5°	132.9	186.0	268.7	322.6	338.1
105°	165.2	210.2	288.5	341.6	357.8
107.5°	199.0	237.3	311.2	362.1	374.7
110°	229.7	263.7	336.1	383.4	397.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	265.0	293.0	360.2	405.2	420.1
115°	299.5	320.2	385.1	428.7	442.8
117.5°	332.5	350.1	408.6	450.7	463.2
120°	367.0	378.7	432.0	473.4	487.4
122.5°	398.5	407.4	458.3	496.0	507.8
125°	430.1	436.8	481.7	519.4	532.0
127.5°	462.4	469.0	505.9	539.9	551.0
130°	492.5	500.6	530.1	564.0	572.9
132.5°	526.3	532.1	555.0	585.3	594.9
135°	554.1	562.2	578.4	608.8	618.4
137.5°	586.4	593.0	601.9	629.2	636.6
140°	615.1	620.2	626.8	650.4	656.3
142.5°	644.4	649.5	651.7	670.2	674.6
145°	670.8	675.9	680.4	690.0	694.3
147.5°	695.8	702.4	705.3	708.3	709.7
150°	721.4	725.9	728.8	731.0	728.8
152.5°	744.2	748.6	752.3	755.2	752.3
155°	767.0	769.2	771.4	775.0	772.8
157.5°	786.8	788.2	789.7	794.8	791.2
160°	804.4	805.9	806.6	811.0	808.1
162.5°	820.5	820.5	821.3	826.4	822.7
165°	834.5	833.7	833.7	838.9	835.2
167.5°	847.0	844.7	844.7	849.9	846.2
170°	856.5	854.3	853.6	858.7	854.3
172.5°	863.1	860.9	860.2	865.3	860.9
175°	868.2	866.0	864.6	869.7	865.3
177.5°	871.2	869.0	867.5	871.9	867.5
180°	869.7	869.7	869.7	869.7	869.7

(END OF REPORT)