

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: P1009164

Luminaire Tested: S122DIP-B485D725UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009164
REPORT IS A COMBINATION OF REPORTS P984357 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D725UB50-4F0-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

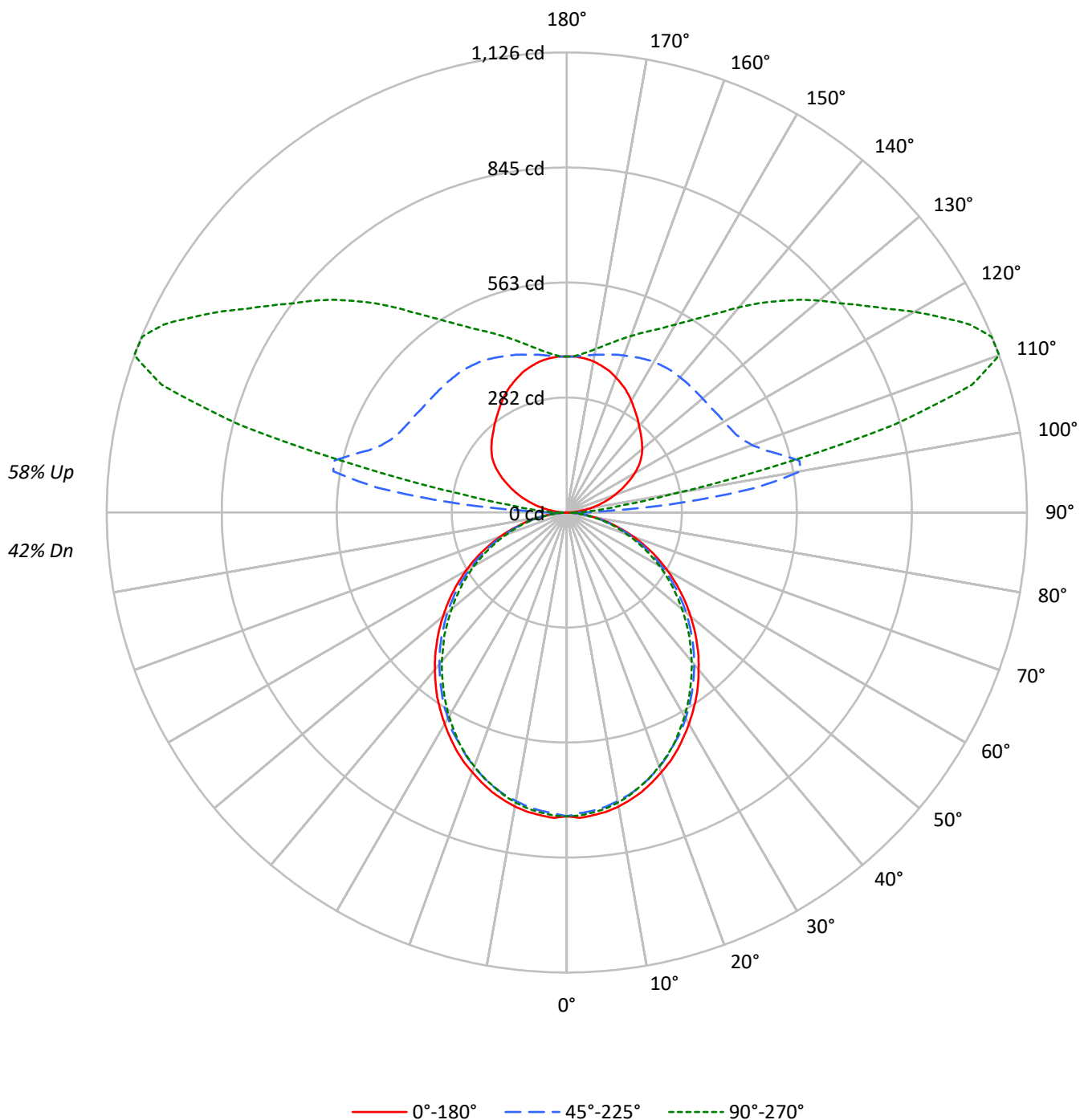
Lumens per Lamp: N/A
Luminaire Lumens: 4556.0 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 45.1
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48
1	96	92	88	84	87	84	80	77	69	67	64	55	54	52	43	42	41
2	87	80	74	69	79	73	68	64	60	57	53	49	46	44	38	36	34
3	80	70	63	57	72	64	58	53	53	49	45	43	40	37	33	31	29
4	73	62	54	48	66	57	50	45	47	42	38	38	35	32	30	27	25
5	67	55	47	41	61	51	44	39	42	37	33	34	30	27	27	24	22
6	61	50	42	36	56	46	39	33	38	33	29	31	27	24	24	22	19
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17
8	53	41	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11772	11772	11772
5°	11791	11220	11141
10°	11695	10709	10497
15°	11524	10194	9819
20°	11291	9633	9177
25°	11061	9048	8536
30°	10771	8498	7863
35°	10497	7919	7203
40°	10160	7345	6579
45°	9824	6777	5966
50°	9455	6199	5332
55°	9070	5582	4729
60°	8636	4912	4104
65°	8159	4233	3447
70°	7557	3489	2783
75°	6718	2689	2149
80°	5708	1829	1383
85°	4139	851	588

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9824 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	1.5
10°-20°	196.9	4.3
20°-30°	289.4	6.4
30°-40°	336.1	7.4
40°-50°	335.7	7.4
50°-60°	292.7	6.4
60°-70°	216.4	4.7
70°-80°	122.4	2.7
80°-90°	34.7	0.8
90°-100°	154.7	3.4
100°-110°	523.2	11.5
110°-120°	549.9	12.1
120°-130°	452.2	9.9
130°-140°	363.4	8.0
140°-150°	274.5	6.0
150°-160°	193.0	4.2
160°-170°	113.6	2.5
170°-180°	37.0	0.8
0°-30°	556.3	12.2
0°-40°	892.4	19.6
0°-60°	1520.9	33.4
0°-90°	1894.4	41.6
90°-120°	1227.9	27.0
90°-150°	2318.0	50.9
90°-180°	2662.0	58.4
0°-180°	4556.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	744	741	733	739	737	71
15°	708	704	694	697	694	199
25°	641	635	623	624	623	295
35°	553	546	534	530	526	345
45°	450	445	434	426	423	347
55°	340	336	328	319	315	304
65°	230	225	218	212	208	227
75°	120	119	115	111	112	128
85°	29	29	28	26	25	33
90°	1	10	25	24	24	3
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°	743.7	743.7	743.7	743.7	743.7
2.5°	748.0	744.4	736.5	743.7	742.2
5°	743.7	740.8	732.9	738.7	737.2
7.5°	738.7	734.4	726.5	732.2	730.8
10°	730.8	725.8	717.2	722.9	720.8
12.5°	720.1	715.8	707.2	710.8	709.3
15°	707.9	703.6	694.3	697.2	693.6
17.5°	692.9	688.6	679.3	682.9	679.3
20°	676.4	672.2	662.1	664.3	661.4
22.5°	660.0	653.6	644.3	644.3	642.8
25°	640.7	635.0	622.8	624.2	622.8
27.5°	619.2	614.2	604.9	602.8	599.2
30°	597.8	592.1	581.3	579.2	576.3
32.5°	574.9	570.6	559.2	554.9	552.0
35°	552.7	545.6	534.2	529.9	526.3
37.5°	527.7	521.3	509.8	504.8	501.3
40°	502.0	496.3	484.8	478.4	475.5
42.5°	476.9	471.2	459.8	452.6	448.3
45°	449.8	444.8	434.0	426.2	423.3
47.5°	423.3	418.3	406.9	399.0	394.7
50°	395.4	391.9	381.8	371.8	368.3
52.5°	368.3	363.3	354.0	346.1	341.1
55°	340.4	336.1	327.5	318.9	315.3
57.5°	312.5	308.9	299.6	291.0	288.2
60°	284.6	281.7	271.7	263.9	261.7
62.5°	257.4	252.4	245.3	238.1	235.3
65°	229.5	225.2	218.1	211.7	208.1
67.5°	200.9	197.4	190.9	185.9	183.1
70°	174.5	171.6	165.2	160.2	157.3
72.5°	147.3	144.4	140.9	135.9	133.7
75°	120.1	118.7	115.1	110.8	112.3
77.5°	95.8	93.0	91.5	89.4	87.2
80°	71.5	70.8	69.4	67.2	65.8
82.5°	48.6	48.6	47.9	45.0	45.0
85°	29.3	28.6	27.9	25.7	25.0
87.5°	12.9	11.4	10.0	7.9	7.2
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)