

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: P1009052

Luminaire Tested: S122DIP-B485D330UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009052
REPORT IS A COMBINATION OF REPORTS P984215 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D330UB35-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

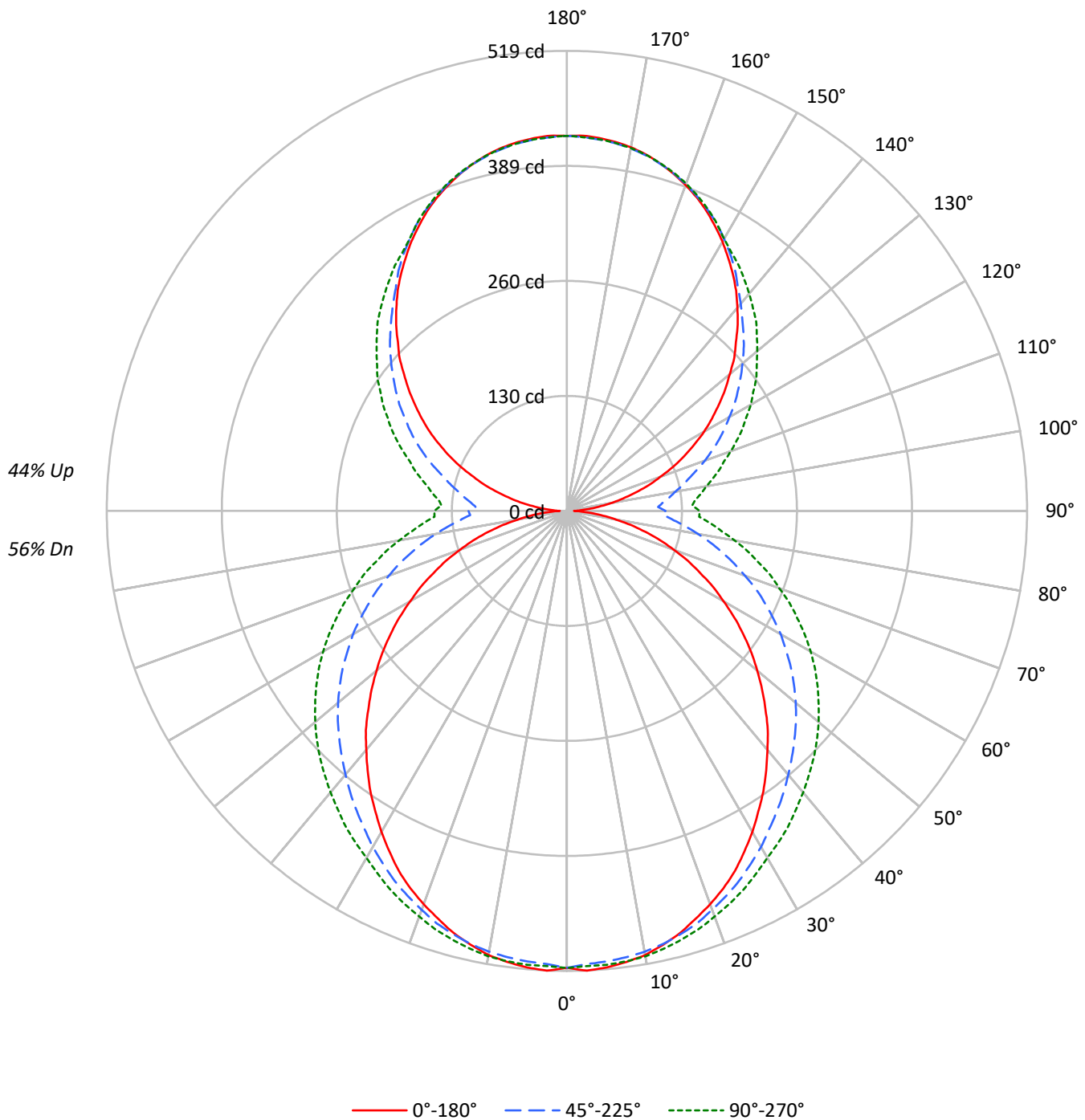
Lumens per Lamp: N/A
Luminaire Lumens: 3151.0 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 33.3
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

TEST NUMBER: P1009052

CATALOG NUMBER: S122DIP-B485D330UB35-4F0-XX-W2A-D1

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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61
1	97	92	88	84	90	86	82	78	73	70	68	62	60	58	51	50	48
2	88	80	73	67	81	74	68	63	63	59	55	53	50	47	44	42	39
3	80	69	61	55	74	65	57	52	55	50	45	47	42	39	39	36	33
4	73	61	53	46	67	57	49	43	49	43	38	41	37	33	34	31	28
5	67	54	46	39	61	51	43	37	43	37	33	37	32	28	31	27	24
6	61	49	40	34	57	45	38	32	39	33	28	33	28	25	28	24	21
7	57	44	35	29	52	41	33	28	35	29	25	30	25	22	25	21	18
8	53	40	32	26	49	37	30	25	32	26	22	28	23	19	23	19	16
9	49	36	28	23	45	34	27	22	29	24	19	25	21	17	21	18	15
10	46	33	26	21	42	31	24	20	27	21	17	23	19	15	20	16	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8160	8160	8160
5°	8197	7812	7768
10°	8142	7541	7431
15°	8027	7262	7087
20°	7883	6968	6758
25°	7740	6686	6461
30°	7539	6400	6167
35°	7336	6125	5951
40°	7122	5886	5736
45°	6919	5670	5549
50°	6701	5470	5365
55°	6470	5260	5177
60°	6190	5039	4979
65°	5898	4784	4752
70°	5565	4513	4508
75°	5141	4240	4276
80°	4471	3958	4036
85°	3800	3690	3831

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6919 cd/sqm

TEST NUMBER: P1009052

CATALOG NUMBER: S122DIP-B485D330UB35-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	1.6
10°-20°	140.2	4.4
20°-30°	212.4	6.7
30°-40°	258.6	8.2
40°-50°	278.2	8.8
50°-60°	270.2	8.6
60°-70°	236.0	7.5
70°-80°	181.6	5.8
80°-90°	122.8	3.9
90°-100°	110.1	3.5
100°-110°	144.5	4.6
110°-120°	182.8	5.8
120°-130°	209.8	6.7
130°-140°	219.6	7.0
140°-150°	207.7	6.6
150°-160°	172.9	5.5
160°-170°	114.7	3.6
170°-180°	40.1	1.3
0°-30°	401.4	12.7
0°-40°	660.0	20.9
0°-60°	1208.5	38.4
0°-90°	1748.9	55.5
90°-120°	437.4	13.9
90°-150°	1074.5	34.1
90°-180°	1402.0	44.5
0°-180°	3151.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	516	516	516	516	516	
5°	517	515	510	515	514	49
15°	493	495	495	501	501	139
25°	448	454	460	469	471	206
35°	386	399	413	430	435	241
45°	317	337	363	386	394	245
55°	243	270	309	336	345	217
65°	166	202	246	277	287	165
75°	92	134	182	214	223	97
85°	27	73	121	152	163	28
90°	8	55	111	140	150	6
95°	25	63	109	137	145	25
105°	80	103	143	170	178	85
115°	146	156	189	211	218	144
125°	209	212	235	254	261	187
135°	270	274	282	297	302	209
145°	326	329	331	336	338	204
155°	373	374	375	377	376	172
165°	406	406	406	408	406	115
175°	422	421	421	423	421	40
180°	423	423	423	423	423	

TEST NUMBER: P1009052

CATALOG NUMBER: S122DIP-B485D330UB35-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	515.5	515.5	515.5	515.5	515.5
2.5°	519.2	517.0	511.8	515.5	514.0
5°	517.0	514.8	510.3	514.8	514.0
7.5°	513.3	511.8	508.0	513.3	512.5
10°	508.8	507.3	505.0	511.0	510.3
12.5°	501.3	502.1	500.6	506.5	505.8
15°	493.1	494.6	494.6	501.3	500.6
17.5°	482.6	485.6	487.9	494.6	494.6
20°	472.2	475.9	478.9	487.1	487.1
22.5°	461.0	465.5	469.9	478.2	479.6
25°	448.3	453.5	460.2	469.2	471.4
27.5°	433.3	441.5	449.0	460.2	461.7
30°	418.4	428.1	437.8	449.8	452.0
32.5°	401.9	413.2	425.1	439.3	443.8
35°	386.3	399.0	413.2	429.6	434.8
37.5°	369.1	383.3	401.2	419.1	424.4
40°	351.9	368.3	388.5	407.9	414.6
42.5°	335.5	351.9	375.8	397.5	404.2
45°	316.8	336.9	363.1	386.3	393.7
47.5°	298.8	320.5	350.4	374.3	382.5
50°	280.2	303.3	336.9	362.4	370.6
52.5°	262.2	286.9	322.8	348.9	357.9
55°	242.8	269.7	308.6	335.5	345.2
57.5°	224.1	254.0	292.9	322.0	331.7
60°	204.0	236.1	278.7	307.1	317.5
62.5°	186.0	219.7	262.2	292.9	302.6
65°	165.9	202.5	246.5	277.2	286.9
67.5°	147.9	186.0	230.9	261.5	271.9
70°	128.5	167.4	213.7	245.8	254.8
72.5°	110.6	150.9	198.0	229.4	240.6
75°	91.9	133.7	181.5	213.7	223.4
77.5°	74.0	117.3	165.9	198.0	208.4
80°	56.0	101.6	150.2	181.5	192.0
82.5°	41.1	85.9	135.2	166.6	176.3
85°	26.9	73.2	121.0	152.4	162.9
87.5°	16.4	61.3	109.1	139.7	149.4
90°	7.9	55.4	111.1	140.3	149.6
92.5°	14.6	57.0	103.0	132.4	141.4
95°	24.6	63.2	108.7	137.1	145.4
97.5°	36.3	71.7	116.4	144.0	153.0
100°	50.5	81.1	124.0	151.7	159.5
102.5°	64.8	91.6	133.4	160.7	168.5
105°	80.5	103.2	142.8	169.7	177.9
107.5°	96.9	116.3	153.6	179.4	185.8
110°	111.9	128.9	165.5	189.4	196.7

TEST NUMBER: P1009052

CATALOG NUMBER: S122DIP-B485D330UB35-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	129.0	143.1	177.1	199.9	207.4
115°	145.8	156.1	189.0	211.1	218.3
117.5°	161.8	170.6	200.3	221.6	228.0
120°	178.6	184.4	211.5	232.4	239.6
122.5°	193.9	198.3	224.1	243.2	249.2
125°	209.3	212.5	235.3	254.5	260.8
127.5°	225.0	228.1	246.9	264.2	269.8
130°	239.6	243.5	258.5	275.7	280.2
132.5°	256.1	258.8	270.5	285.8	290.7
135°	269.5	273.5	281.7	297.0	301.9
137.5°	285.2	288.5	293.0	306.8	310.6
140°	299.2	301.7	305.0	316.9	319.9
142.5°	313.4	316.0	317.0	326.4	328.7
145°	326.3	328.8	331.0	335.8	338.1
147.5°	338.4	341.7	343.1	344.5	345.4
150°	350.9	353.1	354.5	355.6	354.5
152.5°	362.0	364.2	365.9	367.4	365.9
155°	373.1	374.1	375.2	377.0	375.9
157.5°	382.7	383.4	384.1	386.6	384.9
160°	391.3	392.0	392.4	394.5	393.1
162.5°	399.1	399.1	399.5	402.0	400.2
165°	405.9	405.6	405.6	408.1	406.3
167.5°	412.0	410.9	410.9	413.4	411.6
170°	416.6	415.6	415.2	417.7	415.6
172.5°	419.8	418.8	418.4	420.9	418.8
175°	422.3	421.3	420.6	423.1	420.9
177.5°	423.8	422.7	422.0	424.1	422.0
180°	423.1	423.1	423.1	423.1	423.1

(END OF REPORT)