

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: P1009053

Luminaire Tested: S122DIP-B485D330UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009053
REPORT IS A COMBINATION OF REPORTS P984216 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-D4
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

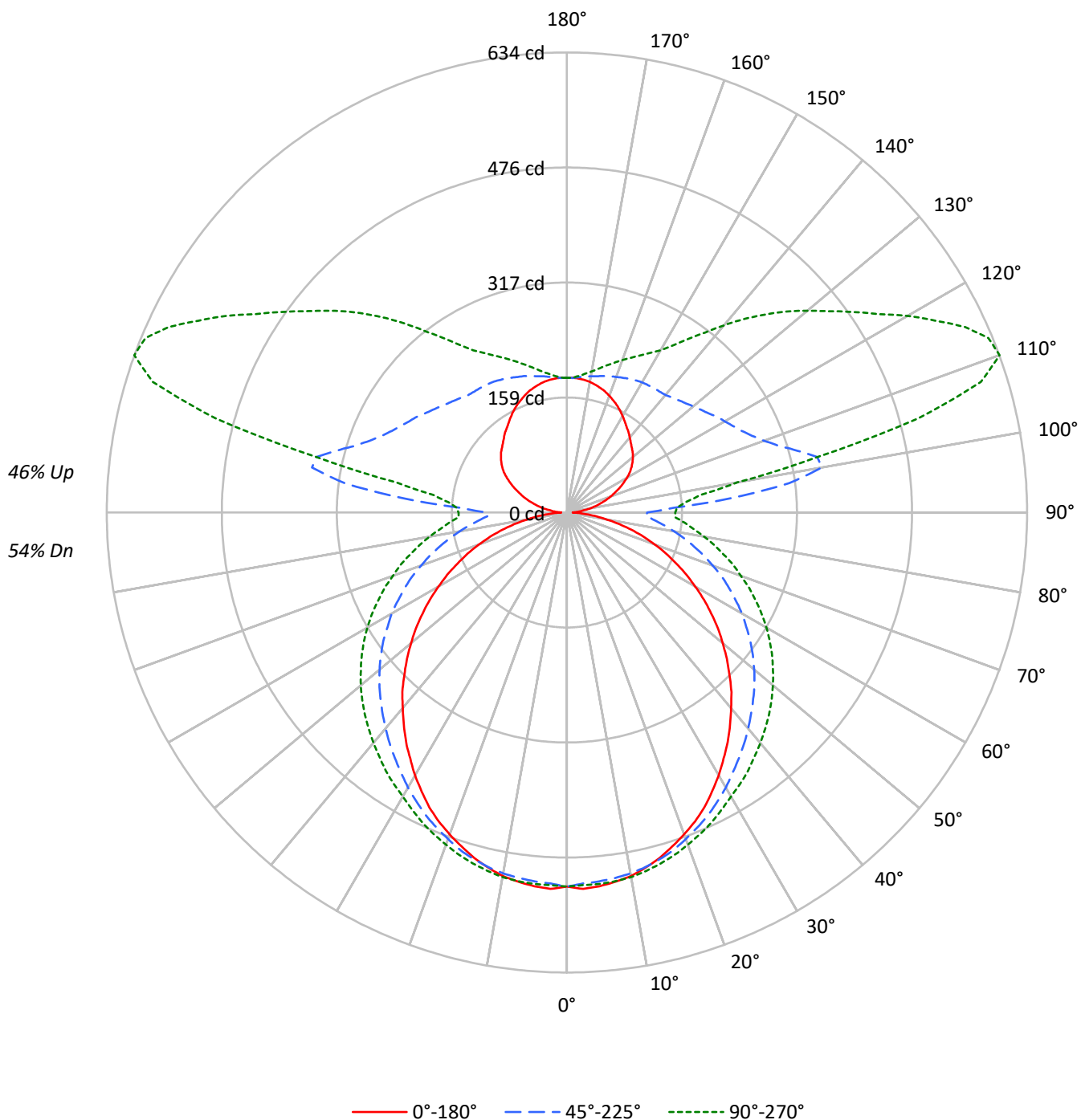
Lumens per Lamp: N/A
Luminaire Lumens: 3262.4 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59
1	97	92	87	83	90	85	81	78	72	69	67	61	59	57	50	48	47
2	88	79	73	67	81	74	68	62	63	58	54	52	49	46	43	41	38
3	80	69	61	55	73	64	57	51	55	49	45	46	42	38	38	35	32
4	73	61	52	46	67	57	49	43	48	42	38	41	36	32	33	30	27
5	66	54	45	39	61	50	43	37	43	37	32	36	31	28	30	26	23
6	61	48	40	34	56	45	37	32	39	32	28	33	28	24	27	23	20
7	56	44	35	29	52	41	33	28	35	29	24	30	25	21	25	21	18
8	52	39	31	26	48	37	30	24	32	26	22	27	22	19	23	19	16
9	49	36	28	23	45	34	27	22	29	23	19	25	20	17	21	17	14
10	45	33	26	21	42	31	24	19	27	21	17	23	18	15	19	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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	1.5
10°-20°	140.2	4.3
20°-30°	212.4	6.5
30°-40°	258.6	7.9
40°-50°	278.2	8.5
50°-60°	270.2	8.3
60°-70°	236.0	7.2
70°-80°	181.6	5.6
80°-90°	122.8	3.8
90°-100°	159.2	4.9
100°-110°	315.7	9.7
110°-120°	307.9	9.4
120°-130°	242.4	7.4
130°-140°	186.2	5.7
140°-150°	135.1	4.1
150°-160°	93.9	2.9
160°-170°	55.3	1.7
170°-180°	18.0	0.6
0°-30°	401.4	12.3
0°-40°	660.0	20.2
0°-60°	1208.5	37.0
0°-90°	1748.9	53.6
90°-120°	782.7	24.0
90°-150°	1346.4	41.3
90°-180°	1514.0	46.4
0°-180°	3262.4	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	56	111	140	149	6
95°	18	72	226	167	164	18
105°	47	91	329	563	501	51
115°	80	108	266	524	605	79
125°	109	128	238	416	482	97
135°	126	151	218	335	386	98
145°	144	165	209	264	292	90
155°	163	176	203	230	239	75
165°	178	183	195	206	210	50
175°	185	185	187	189	189	18
180°	186	186	186	186	186	

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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	55.6	110.7	140.1	149.3
92.5°	12.1	63.2	146.9	146.4	151.8
95°	18.5	71.8	225.8	167.1	164.0
97.5°	23.8	77.9	308.8	214.3	185.5
100°	32.7	82.5	356.7	313.6	238.4
102.5°	40.2	86.9	353.3	453.4	353.8
105°	47.3	91.1	328.8	563.2	500.9
107.5°	55.8	95.2	305.7	599.2	598.1
110°	63.7	99.5	289.0	586.4	634.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	71.5	104.2	276.0	558.2	628.3
115°	79.8	108.1	266.1	524.0	604.9
117.5°	87.5	112.8	258.1	491.8	572.5
120°	95.4	117.3	251.1	461.8	542.0
122.5°	102.9	122.8	245.2	437.8	508.7
125°	108.6	128.2	238.2	415.6	481.8
127.5°	114.0	134.0	232.6	395.2	455.4
130°	118.6	139.9	227.4	375.3	432.6
132.5°	122.9	145.6	222.6	354.9	410.0
135°	126.4	150.6	218.5	334.8	385.8
137.5°	130.3	155.0	214.8	314.6	361.6
140°	134.9	158.2	211.4	296.2	336.7
142.5°	139.6	161.4	209.9	279.0	312.6
145°	143.5	165.0	209.2	264.2	292.4
147.5°	148.5	167.8	208.1	251.3	273.3
150°	153.5	170.6	207.1	242.8	258.1
152.5°	158.5	173.5	205.3	236.2	247.8
155°	163.1	176.2	203.1	229.8	238.8
157.5°	167.1	178.3	201.0	223.7	231.0
160°	171.0	180.4	198.8	217.6	223.5
162.5°	174.9	182.0	197.1	211.9	216.3
165°	177.8	183.1	194.6	206.4	209.6
167.5°	180.3	184.2	192.4	201.4	203.1
170°	182.8	184.8	190.6	196.8	197.4
172.5°	184.2	185.2	188.5	192.6	192.8
175°	185.3	185.4	187.1	189.4	188.9
177.5°	186.0	185.6	185.6	187.1	186.0
180°	185.6	185.6	185.6	185.6	185.6

(END OF REPORT)