

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: P1009089

Luminaire Tested: S122DIP-B485D530UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009089
REPORT IS A COMBINATION OF REPORTS P984267 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D530UB30-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

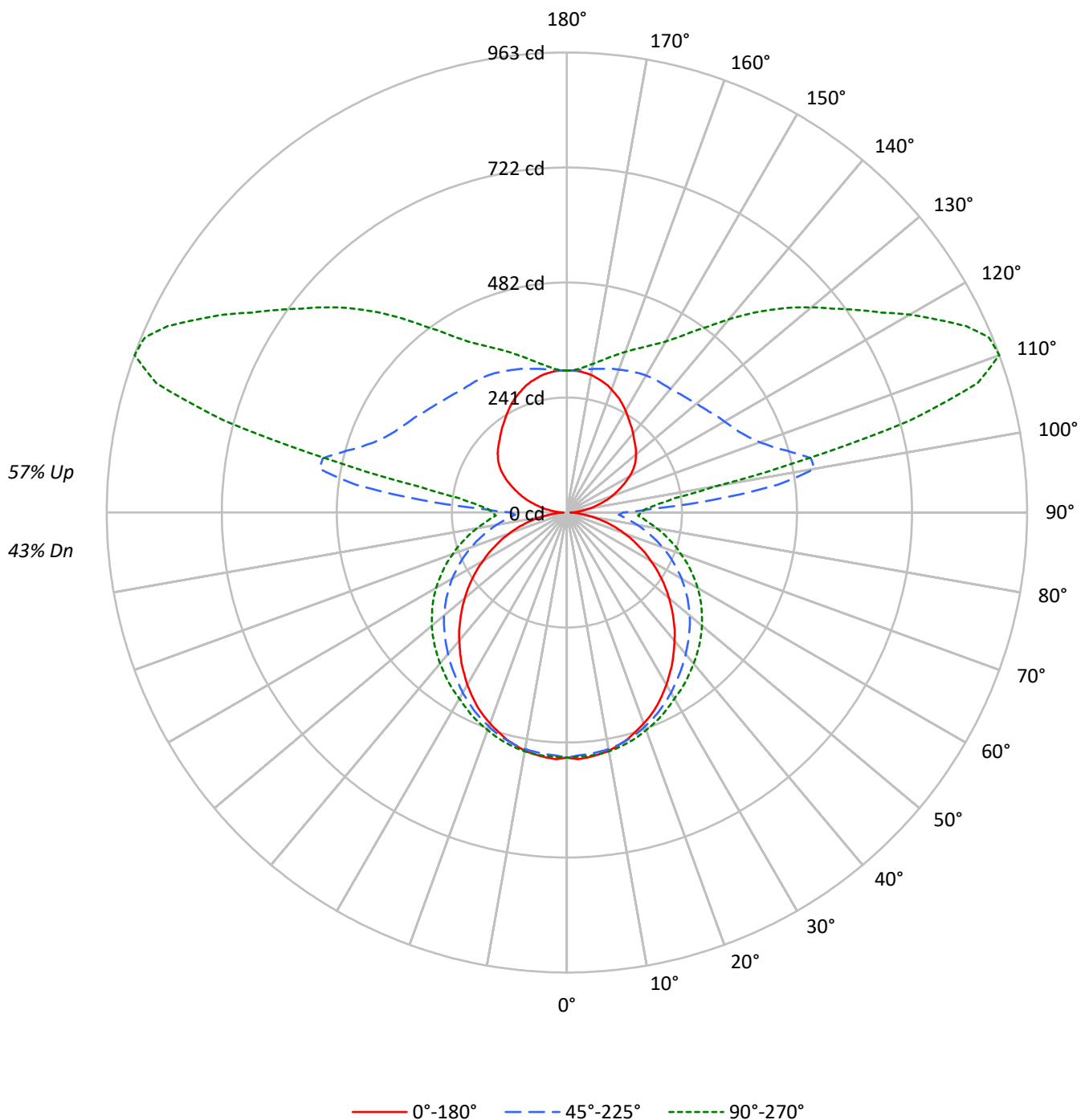
Lumens per Lamp: N/A
Luminaire Lumens: 4031.4 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
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	106	106	106	106	96	96	96	96	80	80	80	64	64	64	50	50	50
1	95	90	86	82	86	82	79	75	68	65	63	54	52	51	42	41	40
2	86	78	71	66	78	71	65	61	59	54	51	47	44	41	36	34	32
3	78	68	60	54	71	62	55	50	51	46	42	41	37	34	32	29	27
4	71	60	52	45	65	55	48	42	45	40	35	36	32	29	28	25	23
5	65	53	45	39	59	49	41	36	40	35	30	32	28	25	25	22	20
6	60	47	39	33	54	44	36	31	36	30	26	29	25	22	23	20	17
7	55	43	35	29	50	39	32	27	33	27	23	26	22	19	21	17	15
8	51	39	31	25	47	36	29	24	30	24	20	24	20	17	19	16	13
9	48	35	28	22	43	32	26	21	27	22	18	22	18	15	17	14	12
10	44	32	25	20	40	30	23	19	25	20	16	20	16	13	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8122	8122	8122
5°	8159	7775	7733
10°	8105	7506	7397
15°	7990	7228	7054
20°	7846	6935	6728
25°	7703	6655	6432
30°	7505	6371	6139
35°	7302	6097	5924
40°	7090	5859	5711
45°	6886	5643	5524
50°	6669	5445	5341
55°	6440	5234	5153
60°	6160	5015	4957
65°	5869	4763	4730
70°	5539	4492	4486
75°	5119	4221	4257
80°	4455	3940	4018
85°	3786	3674	3812

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6886 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.6	1.2
10°-20°	139.5	3.5
20°-30°	211.4	5.2
30°-40°	257.4	6.4
40°-50°	277.0	6.9
50°-60°	269.0	6.7
60°-70°	234.9	5.8
70°-80°	180.8	4.5
80°-90°	123.0	3.1
90°-100°	204.0	5.1
100°-110°	468.2	11.6
110°-120°	468.3	11.6
120°-130°	374.4	9.3
130°-140°	292.2	7.2
140°-150°	215.2	5.3
150°-160°	150.2	3.7
160°-170°	88.4	2.2
170°-180°	28.8	0.7
0°-30°	399.6	9.9
0°-40°	657.0	16.3
0°-60°	1202.9	29.8
0°-90°	1741.6	43.2
90°-120°	1140.5	28.3
90°-150°	2022.3	50.2
90°-180°	2290.0	56.8
0°-180°	4031.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	513	513	513	513	513	
5°	515	512	508	512	512	49
15°	491	492	492	499	498	138
25°	446	451	458	467	469	205
35°	384	397	411	428	433	240
45°	315	335	361	384	392	243
55°	242	268	307	334	344	216
65°	165	202	245	276	286	164
75°	92	133	181	213	222	97
85°	27	73	120	152	162	28
90°	8	58	118	146	156	7
95°	26	90	310	198	188	25
105°	73	130	487	847	742	78
115°	126	166	399	798	922	124
125°	173	204	366	638	740	154
135°	202	241	345	522	599	156
145°	230	264	335	420	463	144
155°	261	282	325	368	382	120
165°	284	293	311	330	335	80
175°	296	297	299	303	302	28
180°	297	297	297	297	297	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	513.1	513.1	513.1	513.1	513.1
2.5°	516.9	514.6	509.4	513.1	511.7
5°	514.6	512.4	507.9	512.4	511.7
7.5°	510.9	509.4	505.7	510.9	510.2
10°	506.5	505.0	502.7	508.7	507.9
12.5°	499.0	499.8	498.3	504.2	503.5
15°	490.8	492.3	492.3	499.0	498.3
17.5°	480.4	483.4	485.6	492.3	492.3
20°	470.0	473.7	476.7	484.9	484.9
22.5°	458.9	463.3	467.8	476.0	477.5
25°	446.2	451.4	458.1	467.0	469.3
27.5°	431.3	439.5	447.0	458.1	459.6
30°	416.5	426.1	435.8	447.7	449.9
32.5°	400.1	411.3	423.2	437.3	441.8
35°	384.5	397.1	411.3	427.6	432.8
37.5°	367.4	381.5	399.4	417.2	422.4
40°	350.3	366.6	386.7	406.1	412.8
42.5°	333.9	350.3	374.1	395.6	402.3
45°	315.3	335.4	361.4	384.5	391.9
47.5°	297.5	319.0	348.8	372.6	380.8
50°	278.9	301.9	335.4	360.7	368.9
52.5°	261.0	285.6	321.3	347.3	356.2
55°	241.7	268.5	307.1	333.9	343.6
57.5°	223.1	252.9	291.5	320.5	330.2
60°	203.0	235.0	277.4	305.7	316.1
62.5°	185.2	218.6	261.0	291.5	301.2
65°	165.1	201.5	245.4	275.9	285.6
67.5°	147.3	185.2	229.8	260.3	270.7
70°	127.9	166.6	212.7	244.7	253.6
72.5°	110.1	150.2	197.1	228.3	239.5
75°	91.5	133.1	180.7	212.7	222.4
77.5°	73.6	116.8	165.1	197.1	207.5
80°	55.8	101.1	149.5	180.7	191.1
82.5°	40.9	85.5	134.6	165.8	175.5
85°	26.8	72.9	120.5	151.7	162.1
87.5°	16.4	61.0	108.6	139.1	148.7
90°	8.0	58.4	117.6	146.5	155.7
92.5°	15.3	73.2	179.5	161.1	164.3
95°	25.9	90.0	309.5	198.4	187.8
97.5°	34.9	102.0	445.4	277.5	225.9
100°	49.2	112.1	525.8	439.8	314.6
102.5°	61.6	121.6	523.4	667.2	502.9
105°	73.4	130.4	487.4	846.8	742.1
107.5°	87.1	139.3	453.6	907.9	901.3
110°	100.1	148.4	429.7	891.2	962.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	112.7	157.8	411.9	849.1	956.4
115°	125.8	166.3	398.8	797.9	922.4
117.5°	138.8	175.6	389.1	749.6	874.3
120°	151.3	184.6	380.7	705.2	828.5
122.5°	163.3	194.7	373.9	670.0	779.5
125°	172.9	204.3	365.8	637.6	739.5
127.5°	181.5	214.1	359.6	608.5	700.9
130°	188.9	223.5	354.1	579.8	668.1
132.5°	195.8	232.7	349.0	550.3	634.9
135°	201.8	240.7	344.7	521.5	599.4
137.5°	208.1	247.6	341.0	492.2	564.3
140°	215.5	253.1	337.5	466.0	528.0
142.5°	223.0	258.2	336.0	441.1	492.5
145°	229.7	264.0	334.8	420.2	463.0
147.5°	237.7	268.6	333.1	401.8	435.5
150°	245.7	273.2	331.4	388.5	413.1
152.5°	253.7	277.7	328.5	378.0	396.5
155°	261.1	282.0	325.1	367.6	382.2
157.5°	267.4	285.4	321.7	358.0	369.7
160°	273.7	288.8	318.3	348.2	357.7
162.5°	280.0	291.4	315.4	339.1	346.2
165°	284.5	293.1	311.4	330.2	335.4
167.5°	288.5	294.8	308.0	322.2	325.1
170°	292.5	295.6	305.1	314.8	316.0
172.5°	294.8	296.6	301.7	308.2	308.5
175°	296.5	296.8	299.4	303.1	302.3
177.5°	297.7	297.1	297.1	299.4	297.7
180°	297.1	297.1	297.1	297.1	297.1

(END OF REPORT)