

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: P1009188

Luminaire Tested: S122DIP-B485D925UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009188
REPORT IS A COMBINATION OF REPORTS P984396 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D925UB35-4F0-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

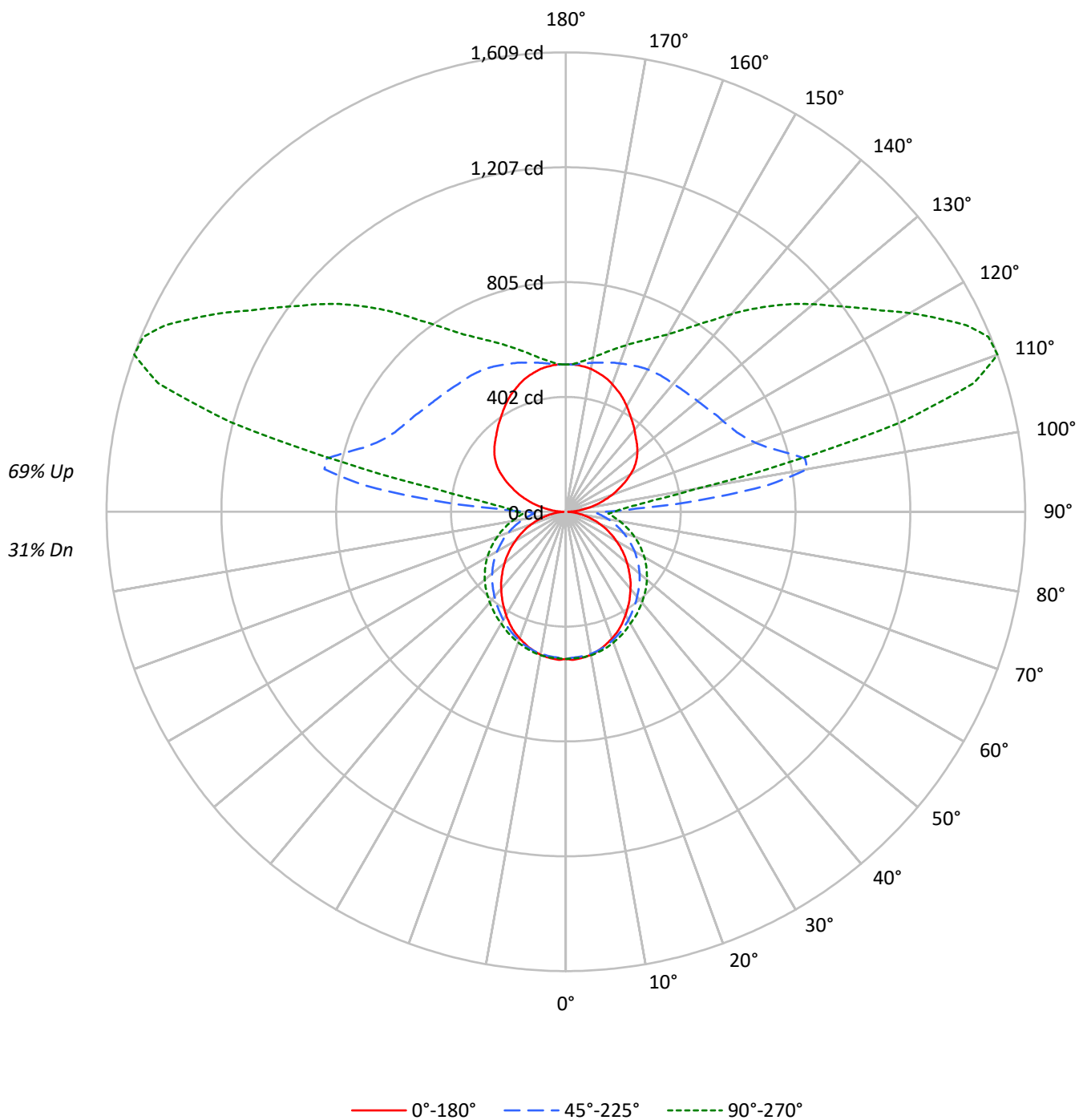
Lumens per Lamp: N/A
Luminaire Lumens: 5568.1 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
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: P1009188

CATALOG NUMBER: S122DIP-B485D925UB35-4F0-XX-W2A-D4

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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39
1	93	88	84	80	83	79	76	72	62	60	58	47	46	44	33	32	31
2	84	76	70	65	75	69	63	59	54	50	47	41	38	36	28	27	25
3	76	67	59	53	68	60	54	48	47	43	39	36	33	30	25	23	21
4	70	59	51	45	62	53	46	41	42	37	33	32	28	25	22	20	18
5	64	52	44	38	57	47	40	35	37	32	28	28	25	22	20	17	15
6	59	46	38	33	52	42	35	30	33	28	24	25	22	19	18	15	13
7	54	42	34	28	48	38	31	26	30	25	21	23	19	16	16	14	12
8	50	38	30	25	45	34	27	23	27	22	19	21	17	15	15	12	11
9	46	34	27	22	42	31	25	20	25	20	17	19	16	13	14	11	9
10	43	31	24	19	39	28	22	18	23	18	15	18	14	12	13	10	9

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: P1009188

CATALOG NUMBER: S122DIP-B485D925UB35-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	0.9
10°-20°	140.2	2.5
20°-30°	212.4	3.8
30°-40°	258.6	4.6
40°-50°	278.2	5.0
50°-60°	270.2	4.9
60°-70°	236.0	4.2
70°-80°	181.6	3.3
80°-90°	124.9	2.2
90°-100°	293.1	5.3
100°-110°	768.5	13.8
110°-120°	783.8	14.1
120°-130°	633.8	11.4
130°-140°	500.7	9.0
140°-150°	372.7	6.7
150°-160°	260.9	4.7
160°-170°	153.6	2.8
170°-180°	50.0	0.9
0°-30°	401.4	7.2
0°-40°	660.0	11.9
0°-60°	1208.5	21.7
0°-90°	1751.0	31.4
90°-120°	1845.4	33.1
90°-150°	3352.6	60.2
90°-180°	3817.0	68.6
0°-180°	5568.1	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	64	132	161	170	8
95°	41	126	475	261	236	41
105°	125	208	800	1405	1217	133
115°	216	281	660	1337	1547	214
125°	299	354	617	1074	1246	266
135°	350	418	593	888	1019	271
145°	399	458	582	726	798	250
155°	454	490	565	639	664	209
165°	494	509	541	574	582	139
175°	515	516	520	526	525	49
180°	516	516	516	516	516	

TEST NUMBER: P1009188

CATALOG NUMBER: S122DIP-B485D925UB35-4F0-XX-W2A-D4

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°	8.5	64.2	132.3	160.8	170.2
92.5°	21.6	93.4	244.7	191.4	190.5
95°	40.7	126.4	474.9	261.2	236.4
97.5°	56.8	150.0	714.8	403.0	306.8
100°	81.6	170.8	858.7	689.4	465.9
102.5°	103.7	189.9	858.4	1088.8	797.3
105°	124.8	208.0	799.7	1404.8	1217.0
107.5°	148.6	226.1	744.7	1515.5	1497.8
110°	171.7	244.6	706.5	1490.6	1609.0

TEST NUMBER: P1009188

CATALOG NUMBER: S122DIP-B485D925UB35-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	193.5	263.0	679.5	1421.4	1601.7
115°	216.4	280.6	660.1	1337.0	1547.2
117.5°	239.4	299.0	646.9	1256.8	1467.8
120°	261.2	316.8	635.5	1183.8	1392.1
122.5°	282.0	336.0	627.0	1126.5	1311.9
125°	299.2	353.8	616.9	1074.2	1246.1
127.5°	314.1	371.3	609.4	1028.0	1183.6
130°	327.0	387.7	602.9	982.2	1130.9
132.5°	338.9	403.6	597.5	934.6	1077.1
135°	350.0	417.5	592.7	888.2	1019.3
137.5°	360.9	429.4	589.0	841.4	962.7
140°	373.8	439.6	585.0	799.4	904.1
142.5°	386.7	448.6	583.5	759.8	846.3
145°	398.9	458.5	581.5	726.4	798.1
147.5°	412.8	466.4	578.6	697.4	754.2
150°	426.7	474.4	575.6	674.8	717.5
152.5°	440.6	482.3	570.6	656.4	688.7
155°	453.5	489.8	564.7	638.6	663.9
157.5°	464.4	495.6	558.7	621.8	642.1
160°	475.3	501.6	552.8	604.8	621.2
162.5°	486.3	506.1	547.8	589.0	601.4
165°	494.2	509.1	540.8	573.6	582.5
167.5°	501.1	512.1	534.9	559.7	564.7
170°	508.1	513.6	529.9	546.8	548.8
172.5°	512.1	515.0	524.0	535.4	535.9
175°	515.0	515.5	520.0	526.5	525.0
177.5°	517.0	516.0	516.0	520.0	517.0
180°	516.0	516.0	516.0	516.0	516.0

(END OF REPORT)