

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: P1009187

Luminaire Tested: S122DIP-B485D925UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009187
REPORT IS A COMBINATION OF REPORTS P984395 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-D1
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

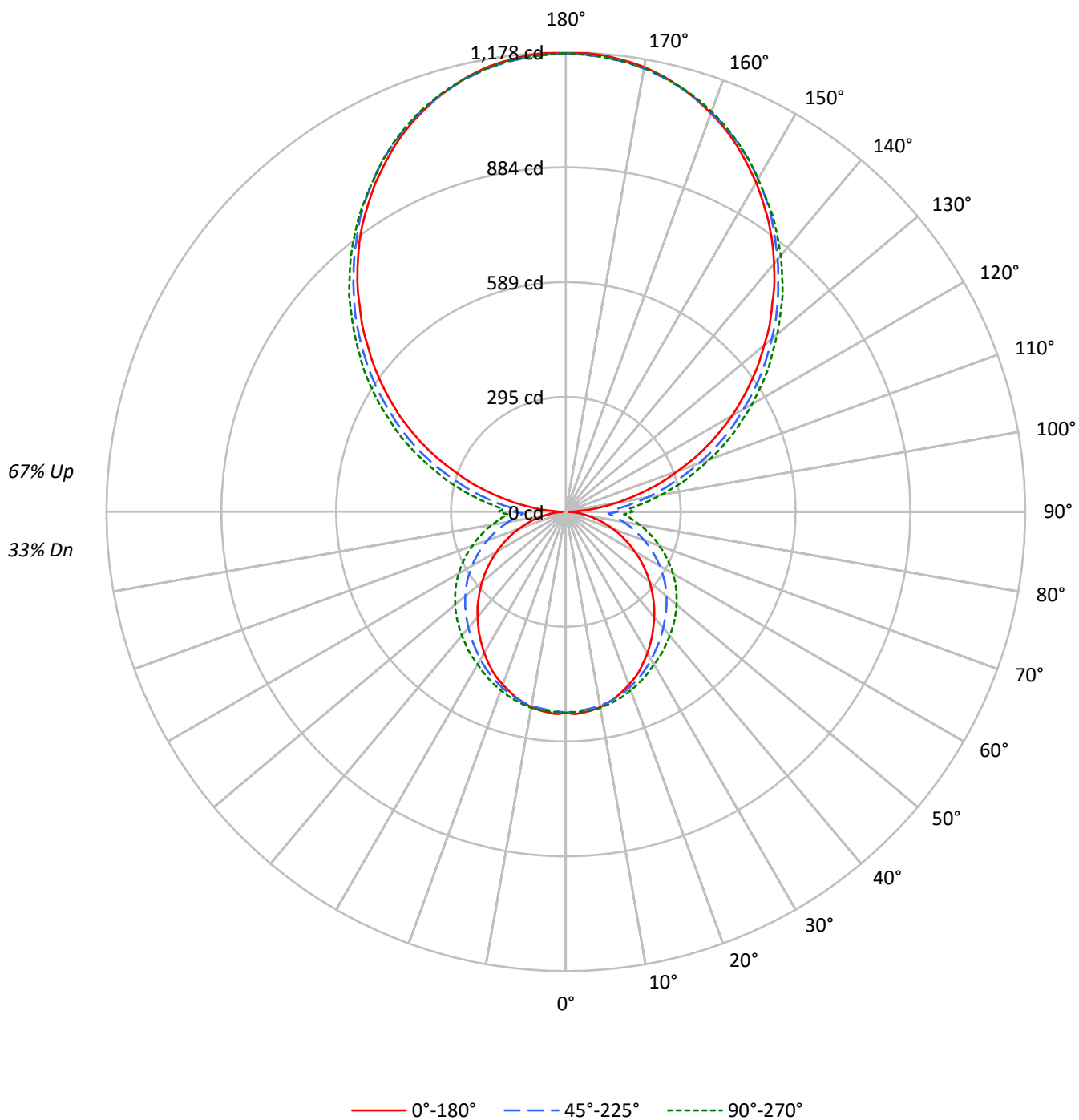
Lumens per Lamp: N/A
Luminaire Lumens: 5258.0 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1009187

CATALOG NUMBER: S122DIP-B485D925UB35-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1009187

CATALOG NUMBER: S122DIP-B485D925UB35-4F0-XX-W2A-D1

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	50	30	10
RCR																				
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41			33
1	93	88	84	80	84	80	76	73	63	61	59	48	47	45	34	33	32			26
2	84	77	70	65	76	69	64	59	55	51	48	42	39	37	30	28	26			21
3	77	67	59	53	69	60	54	49	48	43	40	37	33	31	26	24	22			17
4	70	59	51	45	62	53	46	41	42	37	33	32	29	26	23	21	19			15
5	64	52	44	38	57	47	40	35	38	32	28	29	25	22	21	18	16			12
6	59	47	39	33	53	42	35	30	34	29	25	26	22	19	19	16	14			11
7	54	42	34	28	49	38	31	26	30	25	21	23	20	17	17	14	12			9
8	50	38	30	25	45	34	28	23	28	23	19	21	18	15	15	13	11			8
9	47	34	27	22	42	31	25	20	25	20	17	20	16	13	14	12	10			8
10	43	31	24	20	39	29	22	18	23	18	15	18	14	12	13	11	9			7

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: P1009187

CATALOG NUMBER: S122DIP-B485D925UB35-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	0.9
10°-20°	140.2	2.7
20°-30°	212.4	4.0
30°-40°	258.6	4.9
40°-50°	278.2	5.3
50°-60°	270.2	5.1
60°-70°	236.0	4.5
70°-80°	181.6	3.5
80°-90°	125.0	2.4
90°-100°	156.7	3.0
100°-110°	292.5	5.6
110°-120°	436.2	8.3
120°-130°	542.9	10.3
130°-140°	593.6	11.3
140°-150°	574.4	10.9
150°-160°	480.5	9.1
160°-170°	318.7	6.1
170°-180°	111.4	2.1
0°-30°	401.4	7.6
0°-40°	660.0	12.6
0°-60°	1208.5	23.0
0°-90°	1751.1	33.3
90°-120°	885.3	16.8
90°-150°	2596.3	49.4
90°-180°	3507.0	66.7
0°-180°	5258.0	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	64	133	161	171	8
95°	58	103	149	178	185	62
105°	217	242	283	311	319	230
115°	400	414	446	467	472	395
125°	579	588	609	626	632	518
135°	748	759	768	783	786	578
145°	907	914	920	925	925	567
155°	1037	1040	1043	1048	1045	477
165°	1128	1127	1127	1134	1129	318
175°	1174	1171	1169	1176	1170	112
180°	1176	1176	1176	1176	1176	

TEST NUMBER: P1009187

CATALOG NUMBER: S122DIP-B485D925UB35-4F0-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°	8.5	63.7	133.3	161.2	171.2
92.5°	28.5	76.1	122.7	152.8	161.8
95°	57.6	102.6	149.4	177.8	184.8
97.5°	91.5	132.7	179.9	207.5	216.5
100°	131.2	166.9	211.6	239.3	246.6
102.5°	172.2	202.8	247.1	275.0	282.2
105°	217.1	241.7	282.6	310.7	318.9
107.5°	262.7	284.7	322.0	348.4	351.6
110°	305.7	326.5	363.1	387.0	392.3

TEST NUMBER: P1009187

CATALOG NUMBER: S122DIP-B485D925UB35-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	353.3	371.1	404.6	425.5	431.7
115°	399.9	414.1	445.7	467.1	472.4
117.5°	445.8	459.7	486.2	505.6	510.1
120°	492.4	503.4	525.3	546.2	551.5
122.5°	535.1	545.8	568.4	585.7	590.4
125°	579.0	588.0	608.9	626.1	631.8
127.5°	622.7	632.8	649.1	663.8	667.5
130°	663.4	675.5	689.2	705.2	707.2
132.5°	709.0	718.2	730.5	742.6	745.6
135°	747.9	758.8	768.3	783.0	786.1
137.5°	791.6	800.5	806.3	819.5	820.7
140°	830.3	838.5	845.0	856.9	857.4
142.5°	870.0	878.2	881.2	891.2	890.9
145°	907.0	913.9	919.9	925.4	925.1
147.5°	940.7	949.7	953.6	956.3	954.7
150°	975.5	981.4	985.4	988.4	985.4
152.5°	1006.2	1012.2	1017.1	1021.1	1017.1
155°	1037.0	1040.0	1042.9	1047.9	1044.9
157.5°	1063.8	1065.8	1067.8	1074.7	1069.7
160°	1087.6	1089.6	1090.6	1096.5	1092.6
162.5°	1109.4	1109.4	1110.4	1117.4	1112.4
165°	1128.3	1127.3	1127.3	1134.2	1129.3
167.5°	1145.2	1142.2	1142.2	1149.1	1144.2
170°	1158.1	1155.1	1154.1	1161.0	1155.1
172.5°	1167.0	1164.0	1163.0	1170.0	1164.0
175°	1173.9	1171.0	1169.0	1175.9	1170.0
177.5°	1177.9	1174.9	1172.9	1178.9	1172.9
180°	1175.9	1175.9	1175.9	1175.9	1175.9

(END OF REPORT)