

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: P1009169

Luminaire Tested: S122DIP-B485D925UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009169
REPORT IS A COMBINATION OF REPORTS P984362 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D925UB27-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

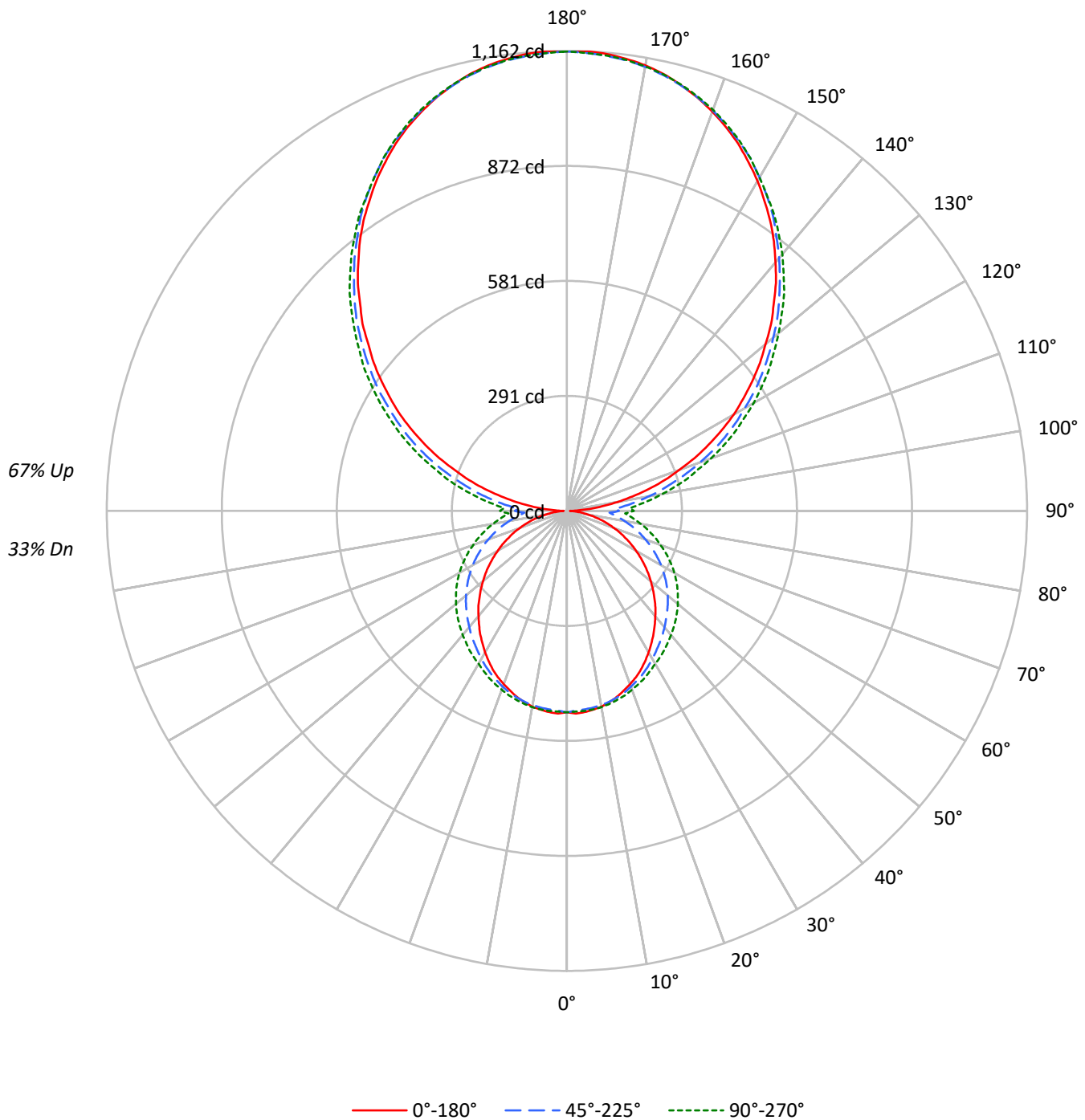
Lumens per Lamp: N/A
Luminaire Lumens: 5189.0 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8052	8052	8052
5°	8089	7708	7665
10°	8035	7442	7332
15°	7921	7166	6992
20°	7777	6876	6670
25°	7636	6597	6376
30°	7440	6315	6085
35°	7240	6043	5873
40°	7027	5809	5661
45°	6827	5595	5476
50°	6612	5398	5294
55°	6384	5190	5108
60°	6108	4972	4913
65°	5819	4722	4689
70°	5491	4454	4447
75°	5074	4184	4219
80°	4415	3905	3984
85°	3743	3641	3779

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6827 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.2	0.9
10°-20°	138.3	2.7
20°-30°	209.6	4.0
30°-40°	255.2	4.9
40°-50°	274.6	5.3
50°-60°	266.6	5.1
60°-70°	232.9	4.5
70°-80°	179.2	3.5
80°-90°	123.3	2.4
90°-100°	154.6	3.0
100°-110°	288.7	5.6
110°-120°	430.5	8.3
120°-130°	535.8	10.3
130°-140°	585.9	11.3
140°-150°	566.9	10.9
150°-160°	474.2	9.1
160°-170°	314.5	6.1
170°-180°	109.9	2.1
0°-30°	396.1	7.6
0°-40°	651.3	12.6
0°-60°	1192.5	23.0
0°-90°	1727.9	33.3
90°-120°	873.8	16.8
90°-150°	2562.4	49.4
90°-180°	3461.0	66.7
0°-180°	5189.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	509	509	509	509	509	
5°	510	508	504	508	507	48
15°	487	488	488	495	494	137
25°	442	448	454	463	465	203
35°	381	394	408	424	429	238
45°	313	332	358	381	388	241
55°	240	266	304	331	341	214
65°	164	200	243	274	283	163
75°	91	132	179	211	220	96
85°	26	72	119	150	161	28
90°	8	63	132	159	169	8
95°	57	101	148	176	182	61
105°	214	239	279	307	315	227
115°	395	409	440	461	466	390
125°	572	580	601	618	624	511
135°	738	749	758	773	776	571
145°	895	902	908	913	913	559
155°	1023	1026	1029	1034	1031	471
165°	1114	1113	1113	1119	1114	314
175°	1159	1156	1154	1161	1155	110
180°	1161	1161	1161	1161	1161	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	508.7	508.7	508.7	508.7	508.7
2.5°	512.4	510.2	505.0	508.7	507.2
5°	510.2	508.0	503.5	508.0	507.2
7.5°	506.5	505.0	501.3	506.5	505.7
10°	502.1	500.6	498.4	504.3	503.5
12.5°	494.7	495.4	493.9	499.8	499.1
15°	486.6	488.1	488.1	494.7	493.9
17.5°	476.3	479.2	481.4	488.1	488.1
20°	465.9	469.6	472.6	480.7	480.7
22.5°	454.9	459.3	463.7	471.8	473.3
25°	442.3	447.5	454.1	463.0	465.2
27.5°	427.6	435.7	443.1	454.1	455.6
30°	412.9	422.4	432.0	443.8	446.0
32.5°	396.6	407.7	419.5	433.5	437.9
35°	381.2	393.7	407.7	423.9	429.1
37.5°	364.2	378.2	395.9	413.6	418.8
40°	347.2	363.5	383.4	402.5	409.2
42.5°	331.0	347.2	370.8	392.2	398.8
45°	312.6	332.5	358.3	381.2	388.5
47.5°	294.9	316.3	345.8	369.4	377.5
50°	276.5	299.3	332.5	357.6	365.7
52.5°	258.8	283.1	318.5	344.3	353.1
55°	239.6	266.1	304.5	331.0	340.6
57.5°	221.2	250.7	289.0	317.7	327.3
60°	201.3	233.0	275.0	303.0	313.3
62.5°	183.6	216.7	258.8	289.0	298.6
65°	163.7	199.8	243.3	273.5	283.1
67.5°	146.0	183.6	227.8	258.0	268.4
70°	126.8	165.1	210.9	242.6	251.4
72.5°	109.1	148.9	195.4	226.3	237.4
75°	90.7	132.0	179.1	210.9	220.4
77.5°	73.0	115.7	163.7	195.4	205.7
80°	55.3	100.3	148.2	179.1	189.5
82.5°	40.5	84.8	133.4	164.4	174.0
85°	26.5	72.2	119.4	150.4	160.7
87.5°	16.2	60.5	107.6	137.9	147.4
90°	8.4	62.8	131.6	159.1	169.0
92.5°	28.1	75.1	121.1	150.7	159.6
95°	56.8	101.2	147.5	175.5	182.3
97.5°	90.4	130.9	177.5	204.8	213.6
100°	129.6	164.6	208.9	236.2	243.3
102.5°	169.9	200.2	243.9	271.4	278.5
105°	214.3	238.6	278.9	306.6	314.7
107.5°	259.3	280.9	317.7	343.8	347.0
110°	301.6	322.3	358.4	382.0	387.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	348.6	366.3	399.3	419.9	426.1
115°	394.6	408.7	439.9	461.1	466.2
117.5°	440.0	453.7	479.8	499.0	503.4
120°	486.0	496.8	518.5	539.1	544.3
122.5°	528.1	538.6	561.0	578.0	582.7
125°	571.5	580.3	601.0	617.9	623.6
127.5°	614.6	624.6	640.5	655.1	658.8
130°	654.7	666.7	680.2	696.0	697.9
132.5°	699.8	708.8	720.9	733.0	735.9
135°	738.2	748.9	758.3	772.8	775.8
137.5°	781.3	790.1	795.7	808.8	810.0
140°	819.5	827.6	834.0	845.8	846.2
142.5°	858.6	866.7	869.7	879.5	879.2
145°	895.1	902.0	907.9	913.3	913.0
147.5°	928.4	937.3	941.2	943.8	942.1
150°	962.7	968.6	972.5	975.5	972.5
152.5°	993.1	999.0	1003.9	1007.8	1003.9
155°	1023.4	1026.4	1029.3	1034.2	1031.3
157.5°	1049.9	1051.8	1053.8	1060.7	1055.8
160°	1073.4	1075.4	1076.3	1082.2	1078.3
162.5°	1094.9	1094.9	1095.9	1102.8	1097.9
165°	1113.5	1112.6	1112.6	1119.4	1114.5
167.5°	1130.2	1127.3	1127.3	1134.1	1129.2
170°	1142.9	1140.0	1139.0	1145.9	1140.0
172.5°	1151.7	1148.8	1147.8	1154.7	1148.8
175°	1158.6	1155.7	1153.7	1160.6	1154.7
177.5°	1162.5	1159.6	1157.6	1163.5	1157.6
180°	1160.6	1160.6	1160.6	1160.6	1160.6

(END OF REPORT)