

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: P1009124

Luminaire Tested: S122DIP-B485D725UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009124
REPORT IS A COMBINATION OF REPORTS P984302 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D725UB27-4F0-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

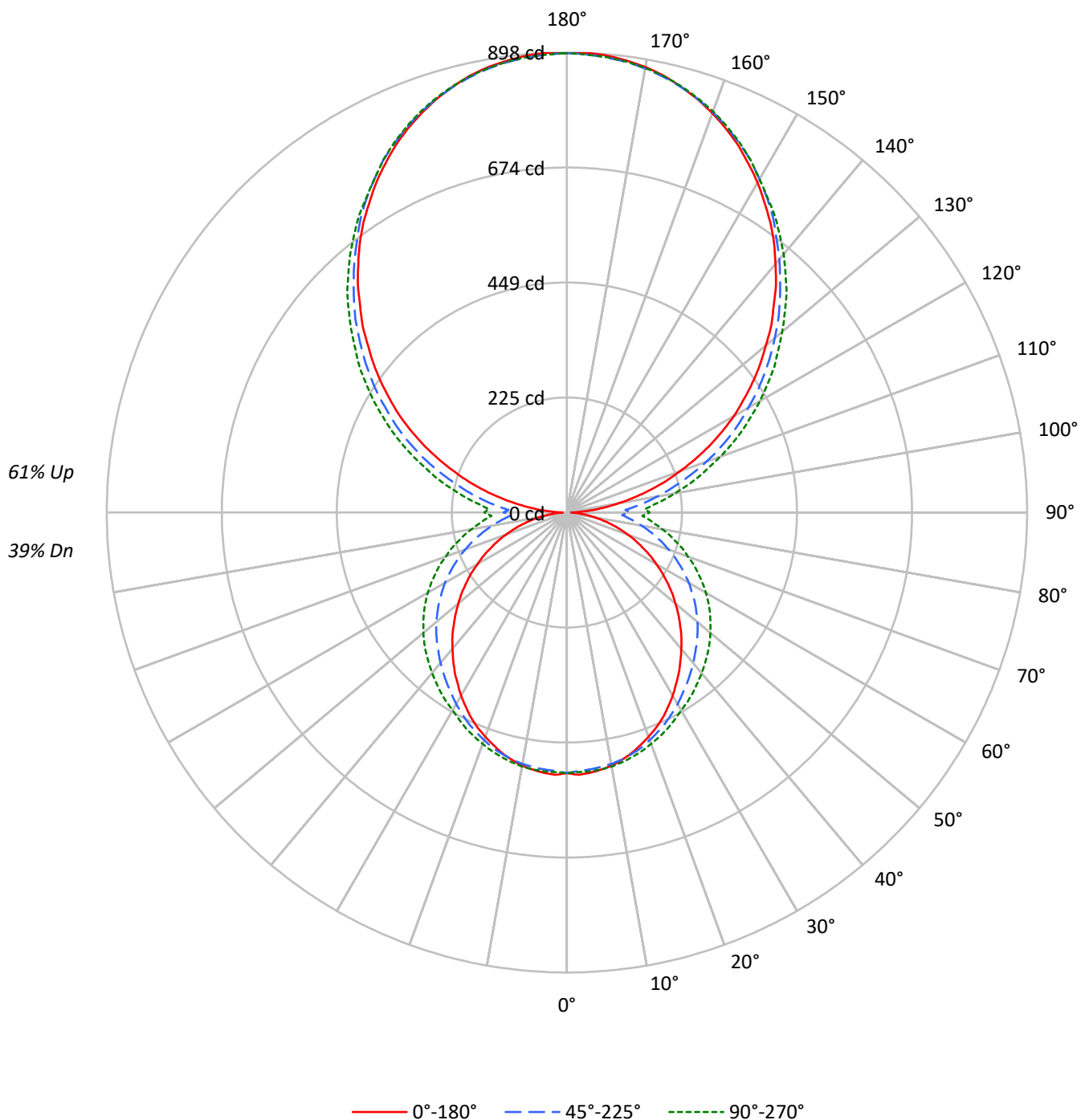
Lumens per Lamp: N/A
Luminaire Lumens: 4451.0 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 45.1
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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46
1	94	89	85	81	85	81	77	74	66	63	61	52	50	48	39	37	36
2	85	77	71	65	77	70	65	60	57	53	49	45	42	39	33	31	30
3	77	68	60	54	70	61	55	49	50	45	41	39	36	33	29	27	25
4	71	59	51	45	64	54	47	42	44	39	34	35	31	28	26	23	21
5	65	53	44	38	58	48	41	35	39	34	29	31	27	24	23	20	18
6	59	47	39	33	54	43	36	30	35	30	25	28	24	21	21	18	16
7	55	42	34	29	49	39	32	27	32	26	22	25	21	18	19	16	14
8	51	38	31	25	46	35	28	23	29	23	20	23	19	16	17	14	12
9	47	35	27	22	43	32	25	21	26	21	17	21	17	14	16	13	11
10	44	32	25	20	40	29	23	18	24	19	16	19	15	13	15	12	10

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	1.1
10°-20°	138.3	3.1
20°-30°	209.6	4.7
30°-40°	255.2	5.7
40°-50°	274.6	6.2
50°-60°	266.6	6.0
60°-70°	232.9	5.2
70°-80°	179.2	4.0
80°-90°	122.6	2.8
90°-100°	138.3	3.1
100°-110°	236.8	5.3
110°-120°	341.7	7.7
120°-130°	419.1	9.4
130°-140°	454.8	10.2
140°-150°	438.5	9.9
150°-160°	366.5	8.2
160°-170°	243.1	5.5
170°-180°	84.9	1.9
0°-30°	396.1	8.9
0°-40°	651.3	14.6
0°-60°	1192.5	26.8
0°-90°	1727.2	38.8
90°-120°	716.9	16.1
90°-150°	2029.3	45.6
90°-180°	2724.0	61.2
0°-180°	4451.0	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	60	124	152	161	8
95°	45	87	133	161	168	49
105°	166	190	230	257	265	176
115°	306	318	350	371	377	302
125°	442	449	470	488	494	395
135°	571	579	588	603	606	441
145°	692	697	702	707	707	432
155°	791	793	795	799	797	364
165°	860	860	860	865	861	243
175°	895	893	892	897	892	85
180°	897	897	897	897	897	

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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°	8.2	59.9	123.8	151.8	161.4
92.5°	23.3	68.4	114.2	143.6	152.5
95°	45.3	87.4	133.2	161.2	168.5
97.5°	71.0	109.6	155.3	182.6	191.4
100°	101.3	134.6	178.1	205.4	212.8
102.5°	132.3	161.2	204.1	231.3	238.7
105°	166.4	190.1	229.9	257.2	265.3
107.5°	201.2	222.0	258.8	284.6	288.9
110°	233.7	253.1	289.2	312.8	318.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	270.1	286.4	319.6	340.9	347.6
115°	305.6	318.4	350.0	371.4	377.2
117.5°	340.5	352.5	379.7	399.5	404.6
120°	376.1	385.1	408.6	429.2	435.0
122.5°	408.6	416.9	440.4	458.0	463.2
125°	442.0	448.8	470.1	487.8	493.6
127.5°	475.3	482.8	499.7	515.2	519.5
130°	506.3	515.4	529.3	545.5	548.4
132.5°	541.1	547.9	559.8	573.0	576.6
135°	570.6	578.9	587.8	602.6	606.2
137.5°	603.9	610.7	615.9	629.2	631.3
140°	633.4	639.5	644.8	656.6	658.0
142.5°	663.7	669.8	672.1	681.6	682.3
145°	691.8	697.1	701.6	706.8	707.4
147.5°	717.5	724.3	727.3	729.5	728.7
150°	744.0	748.5	751.5	753.8	751.5
152.5°	767.4	772.0	775.8	778.8	775.8
155°	790.9	793.2	795.4	799.2	797.0
157.5°	811.3	812.8	814.4	819.7	815.9
160°	829.5	831.0	831.8	836.3	833.3
162.5°	846.2	846.2	846.9	852.2	848.4
165°	860.5	859.8	859.8	865.1	861.3
167.5°	873.4	871.1	871.1	876.4	872.6
170°	883.2	881.0	880.2	885.5	881.0
172.5°	890.0	887.8	887.0	892.3	887.8
175°	895.3	893.1	891.6	896.9	892.3
177.5°	898.4	896.1	894.6	899.1	894.6
180°	896.9	896.9	896.9	896.9	896.9

(END OF REPORT)