

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: P1009125

Luminaire Tested: S122DIP-B485D725UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009125
REPORT IS A COMBINATION OF REPORTS P984303 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D725UB27-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

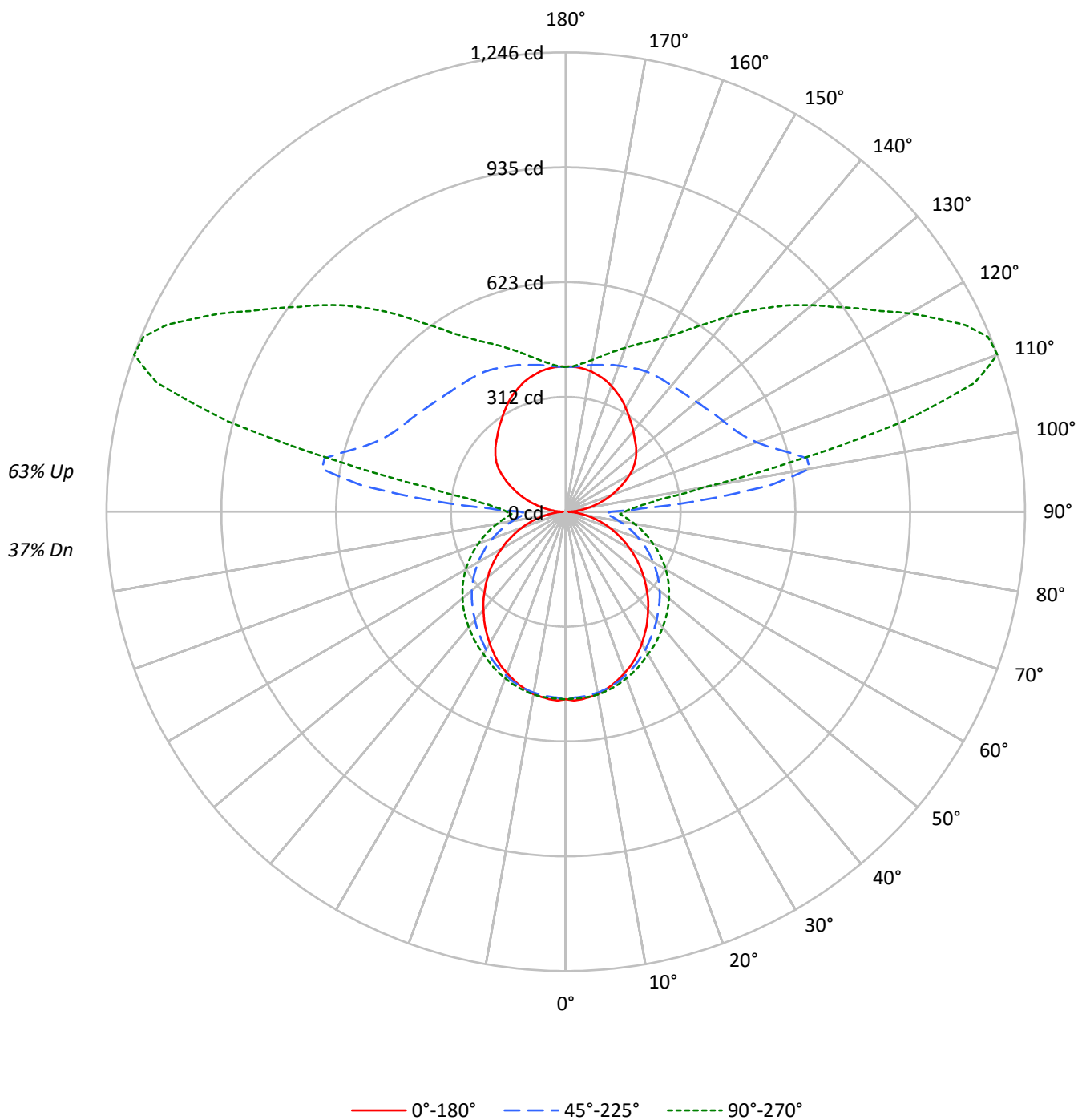
Lumens per Lamp: N/A
Luminaire Lumens: 4687.1 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	50	30	10
RCR																				
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37		
1	94	89	85	81	85	81	77	74	65	62	60	50	49	47	37	36	35	29		
2	85	77	71	65	76	70	64	60	56	52	49	44	41	38	32	30	29	23		
3	77	67	60	54	69	61	54	49	49	44	40	38	35	32	28	26	24	19		
4	70	59	51	45	63	54	47	41	43	38	34	34	30	27	25	22	20	16		
5	64	53	44	38	58	48	41	35	39	33	29	30	26	23	22	20	17	14		
6	59	47	39	33	53	43	35	30	35	29	25	27	23	20	20	17	15	12		
7	55	42	34	29	49	38	31	26	31	26	22	25	21	18	18	15	13	11		
8	51	38	30	25	46	35	28	23	28	23	19	22	18	16	17	14	12	9		
9	47	35	27	22	42	32	25	20	26	21	17	20	17	14	15	13	11	8		
10	44	32	25	20	40	29	23	18	24	19	15	19	15	12	14	12	10	8		

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	1.0
10°-20°	138.3	3.0
20°-30°	209.6	4.5
30°-40°	255.2	5.4
40°-50°	274.6	5.9
50°-60°	266.6	5.7
60°-70°	232.9	5.0
70°-80°	179.2	3.8
80°-90°	122.5	2.6
90°-100°	242.3	5.2
100°-110°	599.8	12.8
110°-120°	606.8	12.9
120°-130°	488.4	10.4
130°-140°	383.9	8.2
140°-150°	284.5	6.1
150°-160°	198.9	4.2
160°-170°	117.1	2.5
170°-180°	38.1	0.8
0°-30°	396.1	8.5
0°-40°	651.3	13.9
0°-60°	1192.5	25.4
0°-90°	1727.1	36.8
90°-120°	1449.0	30.9
90°-150°	2605.8	55.6
90°-180°	2960.0	63.2
0°-180°	4687.1	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	123	151	161	7
95°	32	106	382	225	208	32
105°	96	164	624	1092	950	102
115°	166	217	513	1035	1197	164
125°	228	270	476	829	962	203
135°	267	318	454	683	784	207
145°	304	350	444	555	610	191
155°	346	374	431	487	506	159
165°	377	388	412	437	444	106
175°	393	393	396	402	400	37
180°	394	394	394	394	394	

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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	60.4	123.0	151.4	160.7
92.5°	18.0	81.6	207.2	173.2	174.5
95°	32.4	105.6	381.5	224.8	207.9
97.5°	44.6	122.8	563.2	331.7	260.2
100°	63.5	137.6	671.5	548.6	380.0
102.5°	80.1	151.4	670.2	851.9	631.4
105°	96.0	164.4	624.2	1091.5	950.2
107.5°	114.2	177.3	581.1	1174.6	1163.0
110°	131.6	190.6	551.0	1154.3	1246.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	148.2	203.8	529.2	1100.3	1239.8
115°	165.6	216.6	513.4	1034.7	1196.8
117.5°	183.1	229.8	502.2	972.4	1134.9
120°	199.7	242.8	492.5	915.4	1076.0
122.5°	215.6	256.8	485.0	870.4	1013.4
125°	228.5	270.2	476.1	829.4	962.0
127.5°	239.9	283.3	469.4	792.8	913.0
130°	249.7	295.8	463.4	756.6	871.5
132.5°	258.8	308.0	458.3	719.3	829.3
135°	267.1	318.5	453.8	682.8	784.0
137.5°	275.4	327.7	450.1	645.7	739.5
140°	285.2	335.2	446.5	612.6	693.5
142.5°	295.1	342.0	445.0	581.2	648.2
145°	304.2	349.6	443.5	554.9	610.5
147.5°	314.8	355.6	441.2	532.0	575.8
150°	325.4	361.7	438.9	514.6	547.1
152.5°	336.0	367.8	435.1	500.6	525.2
155°	345.8	373.5	430.6	487.0	506.3
157.5°	354.2	378.0	426.1	474.1	489.6
160°	362.5	382.5	421.5	461.2	473.7
162.5°	370.8	386.0	417.7	449.1	458.6
165°	376.9	388.2	412.4	437.4	444.2
167.5°	382.2	390.5	407.9	426.8	430.6
170°	387.5	391.6	404.1	417.0	418.5
172.5°	390.5	392.8	399.6	408.3	408.7
175°	392.8	393.2	396.5	401.5	400.3
177.5°	394.3	393.5	393.5	396.5	394.3
180°	393.5	393.5	393.5	393.5	393.5

(END OF REPORT)