

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: P1009142

Luminaire Tested: S122DIP-B485D725UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009142
REPORT IS A COMBINATION OF REPORTS P984335 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D725UB35-4F0-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

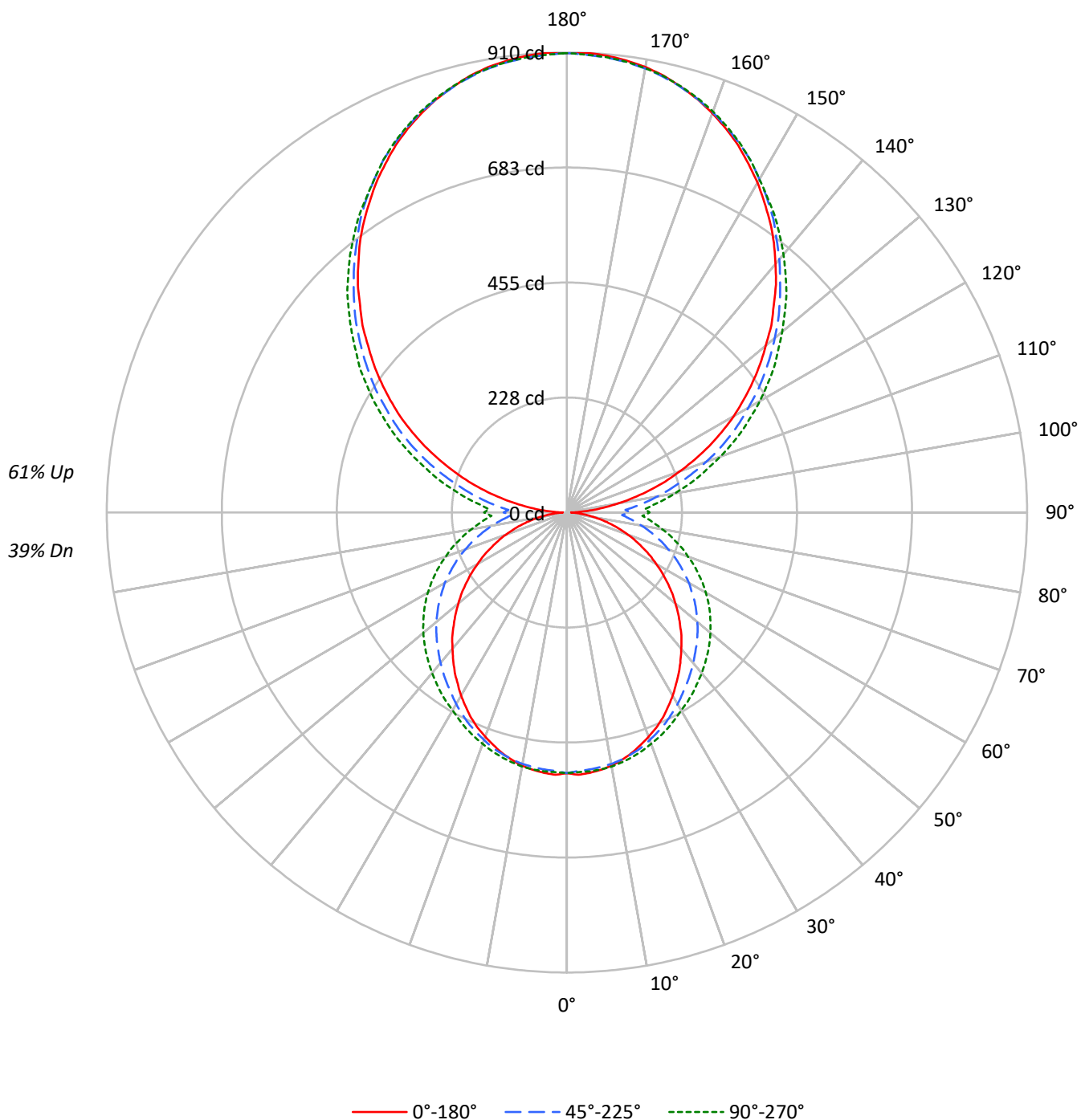
Lumens per Lamp: N/A
Luminaire Lumens: 4510.0 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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					0
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	95	95	95	95	77	77	77	61	61	61	46	46	46	39		
1	94	89	85	81	85	81	77	74	66	63	61	52	50	48	39	37	36	30		
2	85	77	71	65	77	70	65	60	57	53	49	45	42	39	33	31	30	24		
3	77	68	60	54	70	61	55	49	50	45	41	39	36	33	29	27	25	20		
4	71	59	51	45	64	54	47	42	44	39	34	35	31	28	26	23	21	17		
5	65	53	44	38	58	48	41	35	39	34	29	31	27	24	23	20	18	15		
6	59	47	39	33	54	43	36	30	35	30	25	28	24	21	21	18	16	13		
7	55	42	34	29	49	39	32	27	32	26	22	25	21	18	19	16	14	11		
8	51	38	31	25	46	35	28	23	29	23	20	23	19	16	17	15	12	10		
9	47	35	27	22	43	32	25	21	26	21	17	21	17	14	16	13	11	9		
10	44	32	25	20	40	29	23	18	24	19	16	19	15	13	15	12	10	8		

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	1.1
10°-20°	140.2	3.1
20°-30°	212.4	4.7
30°-40°	258.6	5.7
40°-50°	278.2	6.2
50°-60°	270.2	6.0
60°-70°	236.0	5.2
70°-80°	181.6	4.0
80°-90°	124.2	2.8
90°-100°	140.1	3.1
100°-110°	240.0	5.3
110°-120°	346.2	7.7
120°-130°	424.7	9.4
130°-140°	460.8	10.2
140°-150°	444.2	9.8
150°-160°	371.3	8.2
160°-170°	246.2	5.5
170°-180°	86.1	1.9
0°-30°	401.4	8.9
0°-40°	660.0	14.6
0°-60°	1208.5	26.8
0°-90°	1750.3	38.8
90°-120°	726.3	16.1
90°-150°	2056.1	45.6
90°-180°	2760.0	61.2
0°-180°	4510.0	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	61	125	154	164	8
95°	46	89	135	163	171	49
105°	169	193	233	261	269	178
115°	310	322	355	376	382	306
125°	448	455	476	494	500	400
135°	578	586	596	610	614	447
145°	701	706	711	716	717	438
155°	801	804	806	810	807	369
165°	872	871	871	876	873	246
175°	907	905	903	909	904	86
180°	909	909	909	909	909	

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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°	8.3	60.8	125.4	153.8	163.6
92.5°	23.6	69.3	115.7	145.5	154.5
95°	45.9	88.6	135.0	163.4	170.8
97.5°	71.9	111.0	157.4	185.0	194.0
100°	102.6	136.4	180.5	208.2	215.7
102.5°	134.1	163.3	206.8	234.4	241.9
105°	168.6	192.6	233.0	260.6	268.8
107.5°	203.8	224.9	262.2	288.4	292.7
110°	236.9	256.4	293.0	316.9	322.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	273.7	290.2	323.8	345.4	352.1
115°	309.7	322.5	354.6	376.2	382.2
117.5°	345.0	357.1	384.7	404.8	410.0
120°	381.0	390.1	413.9	434.8	440.8
122.5°	414.0	422.4	446.2	464.1	469.3
125°	447.8	454.7	476.3	494.2	500.1
127.5°	481.5	489.1	506.3	521.9	526.3
130°	513.0	522.1	536.3	552.8	555.6
132.5°	548.2	555.1	567.2	580.4	584.1
135°	578.1	586.5	595.6	610.5	614.2
137.5°	611.8	618.7	624.1	637.5	639.6
140°	641.7	647.9	653.3	665.2	666.6
142.5°	672.4	678.6	680.9	690.7	691.3
145°	700.8	706.2	710.8	716.1	716.7
147.5°	726.9	733.8	736.9	739.1	738.4
150°	753.8	758.4	761.4	763.7	761.4
152.5°	777.5	782.1	786.0	789.0	786.0
155°	801.3	803.6	805.9	809.7	807.4
157.5°	822.0	823.5	825.1	830.4	826.6
160°	840.4	841.9	842.7	847.3	844.2
162.5°	857.3	857.3	858.0	863.4	859.6
165°	871.8	871.1	871.1	876.4	872.6
167.5°	884.9	882.6	882.6	887.9	884.1
170°	894.8	892.5	891.8	897.1	892.5
172.5°	901.7	899.4	898.7	904.0	899.4
175°	907.1	904.8	903.3	908.7	904.0
177.5°	910.2	907.9	906.3	911.0	906.3
180°	908.7	908.7	908.7	908.7	908.7

(END OF REPORT)