

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: P1009141

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009141
REPORT IS A COMBINATION OF REPORTS P984334 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-D
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

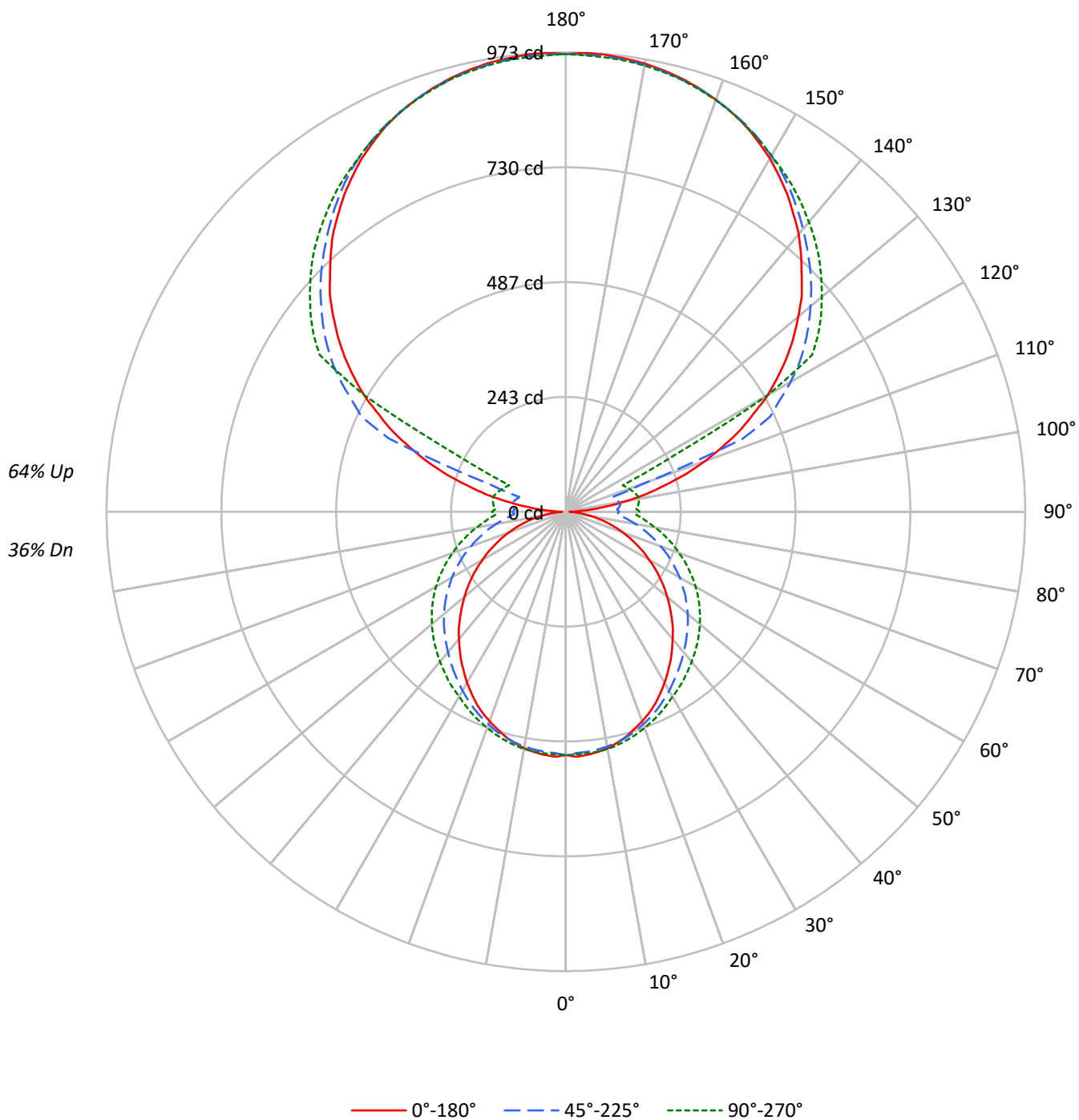
Lumens per Lamp: N/A
Luminaire Lumens: 4811.0 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	94	94	94	94	76	76	76	59	59	59	44	44	44
1	94	89	85	81	84	80	77	74	65	62	60	50	48	47	37	36	35
2	85	77	71	65	76	70	64	59	56	52	49	43	41	38	32	30	28
3	77	67	60	54	69	61	54	49	49	44	40	38	35	32	28	26	24
4	70	59	51	45	63	54	47	41	43	38	34	34	30	27	25	22	20
5	64	53	44	38	58	48	40	35	39	33	29	30	26	23	22	19	17
6	59	47	39	33	53	43	35	30	35	29	25	27	23	20	20	17	15
7	55	42	34	29	49	38	31	26	31	26	22	24	20	18	18	15	13
8	50	38	30	25	45	35	28	23	28	23	19	22	18	15	17	14	12
9	47	35	27	22	42	32	25	20	26	21	17	20	17	14	15	13	11
10	44	32	24	20	39	29	23	18	24	19	15	19	15	12	14	11	10

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	1.0
10°-20°	140.2	2.9
20°-30°	212.4	4.4
30°-40°	258.6	5.4
40°-50°	278.2	5.8
50°-60°	270.2	5.6
60°-70°	236.0	4.9
70°-80°	181.6	3.8
80°-90°	123.3	2.6
90°-100°	115.9	2.4
100°-110°	180.5	3.8
110°-120°	356.5	7.4
120°-130°	546.8	11.4
130°-140°	566.3	11.8
140°-150°	519.1	10.8
150°-160°	416.1	8.6
160°-170°	268.1	5.6
170°-180°	92.3	1.9
0°-30°	401.4	8.3
0°-40°	660.0	13.7
0°-60°	1208.5	25.1
0°-90°	1749.4	36.4
90°-120°	652.9	13.6
90°-150°	2285.1	47.5
90°-180°	3062.0	63.6
0°-180°	4811.0	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	59	113	146	156	8
95°	52	64	113	145	154	59
105°	217	260	107	141	152	232
115°	406	426	478	175	133	400
125°	572	581	618	643	652	510
135°	706	718	732	754	759	546
145°	819	818	830	839	840	512
155°	902	895	904	908	902	415
165°	950	946	948	953	948	268
175°	972	967	968	973	966	92
180°	970	970	970	970	970	

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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°	8.2	59.2	112.6	146.0	156.4
92.5°	24.2	61.0	108.7	139.2	148.9
95°	51.6	63.5	113.3	145.2	153.5
97.5°	87.3	62.0	116.5	146.2	155.9
100°	129.4	61.0	114.7	148.0	157.6
102.5°	175.0	198.2	110.9	145.5	155.8
105°	217.0	259.7	107.1	140.9	151.9
107.5°	266.8	302.3	103.2	136.3	147.3
110°	313.8	343.4	177.3	131.0	142.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	358.7	383.2	405.7	127.2	137.5
115°	406.4	426.5	477.6	175.2	133.0
117.5°	447.0	467.0	510.3	432.4	256.1
120°	493.3	506.8	549.3	578.6	492.2
122.5°	532.6	544.6	586.2	610.6	618.0
125°	571.8	581.0	618.2	643.3	652.1
127.5°	608.3	617.3	648.1	673.8	681.2
130°	642.7	653.1	676.5	702.3	707.5
132.5°	677.8	686.1	705.1	728.5	733.8
135°	706.4	717.7	731.5	754.2	758.8
137.5°	737.3	745.7	756.5	777.8	780.9
140°	767.5	772.4	781.6	799.8	800.8
142.5°	792.7	796.9	806.1	820.7	820.9
145°	818.7	818.0	829.9	839.3	839.5
147.5°	841.8	839.7	851.7	855.9	855.4
150°	864.3	859.4	870.6	874.8	871.3
152.5°	883.2	877.6	888.1	892.4	887.4
155°	901.5	895.2	903.6	907.8	902.2
157.5°	916.2	910.6	916.9	921.8	916.2
160°	928.8	924.6	928.8	933.0	928.1
162.5°	940.1	935.8	939.4	944.3	938.0
165°	949.9	945.7	947.8	952.7	947.8
167.5°	957.6	953.4	955.5	960.4	954.1
170°	963.9	959.7	961.1	966.0	959.7
172.5°	968.1	963.9	965.3	970.2	963.9
175°	971.6	966.7	968.1	973.0	966.0
177.5°	973.0	968.1	968.8	973.7	967.4
180°	969.5	969.5	969.5	969.5	969.5

(END OF REPORT)