

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: P1009034

Luminaire Tested: S122DIP-B485D330UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009034
REPORT IS A COMBINATION OF REPORTS P984182 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D330UB27-4F0-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

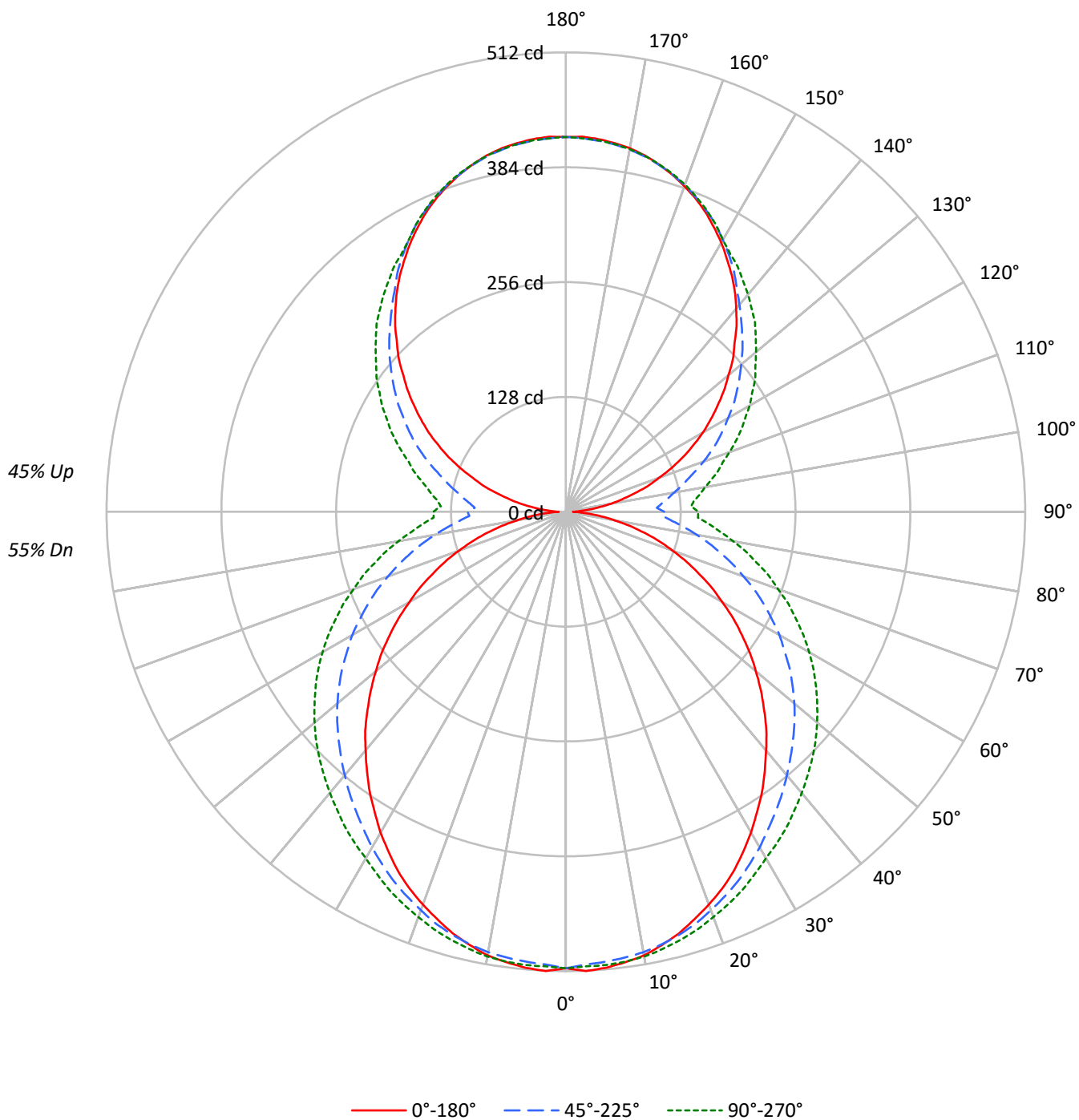
Lumens per Lamp: N/A
Luminaire Lumens: 3110.0 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 33.3
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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61
1	97	92	88	84	90	86	82	78	73	70	68	62	60	58	51	50	48
2	88	80	73	67	81	74	68	63	63	59	55	53	50	47	44	42	39
3	80	69	61	55	74	65	57	52	55	50	45	47	42	39	39	36	33
4	73	61	53	46	67	57	49	43	49	43	38	41	37	33	34	31	28
5	67	54	46	39	61	51	43	37	43	37	33	37	32	28	31	27	24
6	61	49	40	34	57	45	38	32	39	33	28	33	28	25	28	24	21
7	57	44	35	29	52	41	33	28	35	29	25	30	25	22	25	21	18
8	53	40	32	26	49	37	30	25	32	26	22	28	23	19	23	19	16
9	49	36	28	23	45	34	27	22	29	24	19	25	21	17	21	18	15
10	46	33	26	21	42	31	24	20	27	21	17	23	19	15	20	16	13

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	1.6
10°-20°	138.3	4.4
20°-30°	209.6	6.7
30°-40°	255.2	8.2
40°-50°	274.6	8.8
50°-60°	266.6	8.6
60°-70°	232.9	7.5
70°-80°	179.2	5.8
80°-90°	121.2	3.9
90°-100°	108.6	3.5
100°-110°	142.6	4.6
110°-120°	180.5	5.8
120°-130°	207.1	6.7
130°-140°	216.8	7.0
140°-150°	205.0	6.6
150°-160°	170.7	5.5
160°-170°	113.2	3.6
170°-180°	39.6	1.3
0°-30°	396.1	12.7
0°-40°	651.3	20.9
0°-60°	1192.5	38.3
0°-90°	1725.8	55.5
90°-120°	431.7	13.9
90°-150°	1060.7	34.1
90°-180°	1384.0	44.5
0°-180°	3110.0	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	55	110	138	148	6
95°	24	62	107	135	144	25
105°	80	102	141	168	176	84
115°	144	154	187	208	216	142
125°	207	210	232	251	258	185
135°	266	270	278	293	298	206
145°	322	325	327	332	334	201
155°	368	369	370	372	371	170
165°	401	400	400	403	401	113
175°	417	416	415	418	416	40
180°	418	418	418	418	418	

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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°	7.8	54.7	109.6	138.4	147.7
92.5°	14.4	56.3	101.6	130.7	139.6
95°	24.2	62.4	107.4	135.4	143.5
97.5°	35.9	70.7	114.8	142.1	150.9
100°	50.0	80.0	122.3	149.6	157.4
102.5°	64.0	90.5	131.7	158.5	166.3
105°	79.5	101.9	140.9	167.5	175.6
107.5°	95.7	114.8	151.6	177.1	183.4
110°	110.4	127.3	163.4	187.0	194.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	127.3	141.2	174.9	197.3	204.8
115°	143.9	154.2	186.6	208.5	215.5
117.5°	159.8	168.5	197.7	218.8	225.1
120°	176.3	182.1	208.8	229.4	236.5
122.5°	191.5	195.7	221.2	240.1	246.1
125°	206.6	209.8	232.4	251.2	257.5
127.5°	222.2	225.2	243.7	260.8	266.4
130°	236.6	240.4	255.2	272.2	276.7
132.5°	252.8	255.6	267.0	282.2	287.1
135°	266.1	270.0	278.1	293.3	298.1
137.5°	281.6	284.8	289.2	302.9	306.6
140°	295.4	297.9	301.1	312.9	315.9
142.5°	309.5	312.0	313.0	322.2	324.5
145°	322.2	324.6	326.8	331.5	333.8
147.5°	334.2	337.3	338.7	340.1	340.9
150°	346.5	348.6	350.0	351.1	350.0
152.5°	357.4	359.5	361.3	362.7	361.3
155°	368.4	369.4	370.5	372.2	371.2
157.5°	377.9	378.6	379.3	381.7	380.0
160°	386.3	387.0	387.4	389.5	388.1
162.5°	394.1	394.1	394.4	396.9	395.1
165°	400.8	400.4	400.4	402.9	401.1
167.5°	406.8	405.7	405.7	408.2	406.4
170°	411.4	410.3	409.9	412.4	410.3
172.5°	414.5	413.5	413.1	415.6	413.5
175°	417.0	415.9	415.2	417.7	415.6
177.5°	418.4	417.3	416.6	418.8	416.6
180°	417.7	417.7	417.7	417.7	417.7

(END OF REPORT)