

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: P1009079

Luminaire Tested: S122DIP-B485D530UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009079
REPORT IS A COMBINATION OF REPORTS P984242 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D530UB27-4F0-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

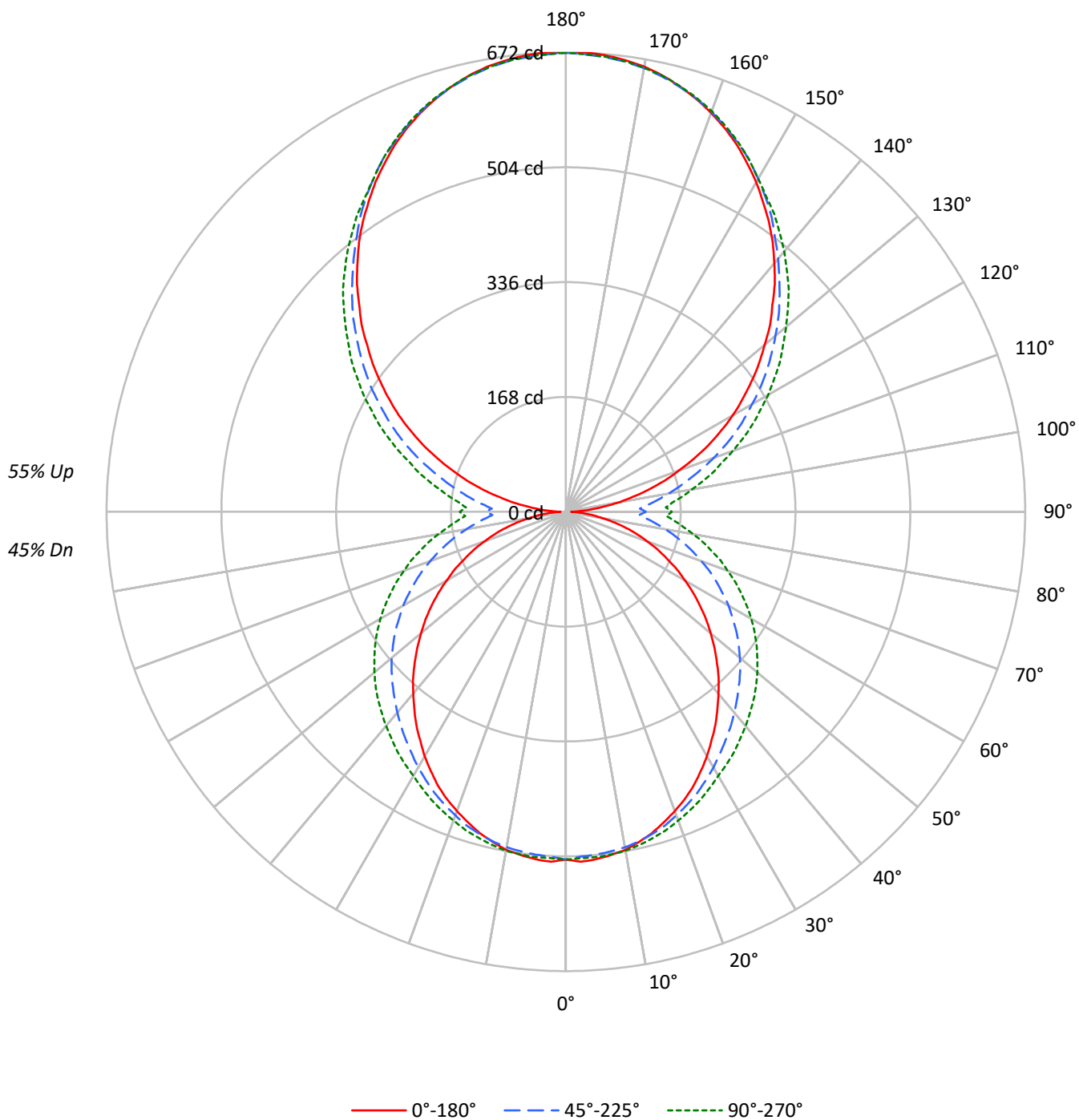
Lumens per Lamp: N/A
Luminaire Lumens: 3820.0 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52
1	95	90	86	82	87	83	79	76	69	66	63	56	54	52	44	42	41
2	86	78	72	66	79	72	66	61	59	55	51	48	45	42	38	35	33
3	78	68	60	54	71	63	56	50	52	47	43	42	38	35	33	30	28
4	71	60	52	45	65	55	48	42	46	40	36	37	33	30	29	26	24
5	65	53	45	39	59	49	42	36	41	35	31	33	29	25	26	23	20
6	60	48	39	33	55	44	36	31	37	31	26	30	25	22	23	20	18
7	56	43	35	29	51	40	32	27	33	27	23	27	23	19	21	18	16
8	51	39	31	25	47	36	29	24	30	24	20	25	20	17	20	16	14
9	48	35	28	23	44	33	26	21	27	22	18	23	18	15	18	15	12
10	45	32	25	20	41	30	23	19	25	20	16	21	17	14	17	14	11

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	1.3
10°-20°	138.3	3.6
20°-30°	209.6	5.5
30°-40°	255.2	6.7
40°-50°	274.6	7.2
50°-60°	266.6	7.0
60°-70°	232.9	6.1
70°-80°	179.2	4.7
80°-90°	121.9	3.2
90°-100°	124.4	3.3
100°-110°	192.5	5.0
110°-120°	265.9	7.0
120°-130°	319.4	8.4
130°-140°	342.9	9.0
140°-150°	328.6	8.6
150°-160°	274.3	7.2
160°-170°	182.0	4.8
170°-180°	63.6	1.7
0°-30°	396.1	10.4
0°-40°	651.3	17.0
0°-60°	1192.5	31.2
0°-90°	1726.5	45.2
90°-120°	582.7	15.3
90°-150°	1573.6	41.2
90°-180°	2093.0	54.8
0°-180°	3820.0	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	58	117	146	155	7
95°	35	76	121	149	157	38
105°	126	149	188	215	223	133
115°	230	241	273	295	301	227
125°	331	336	358	376	382	296
135°	427	434	442	457	461	330
145°	518	522	525	530	532	324
155°	592	594	596	598	597	273
165°	644	644	644	648	645	182
175°	670	669	667	671	668	64
180°	671	671	671	671	671	

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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°	8.0	57.5	117.1	145.5	155.0
92.5°	19.1	62.7	108.3	137.5	146.4
95°	35.4	75.6	121.1	149.1	156.7
97.5°	54.5	91.3	136.3	163.6	172.4
100°	77.2	108.9	151.9	179.2	186.7
102.5°	100.2	128.0	170.0	197.1	204.6
105°	125.5	148.6	188.0	215.0	223.1
107.5°	151.6	171.5	208.3	234.0	239.3
110°	175.7	193.9	230.0	253.6	260.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	202.9	218.1	251.5	273.3	280.4
115°	229.5	241.1	273.1	294.7	301.1
117.5°	255.5	265.9	294.1	314.5	320.2
120°	282.1	289.6	314.6	335.2	341.6
122.5°	306.5	312.8	337.3	355.5	361.1
125°	331.2	336.3	358.2	376.4	382.5
127.5°	356.2	361.6	379.2	395.5	400.4
130°	379.4	386.0	400.3	416.9	420.5
132.5°	405.5	410.3	422.0	436.2	440.4
135°	427.3	433.6	442.1	457.0	461.2
137.5°	452.3	457.4	462.2	475.6	478.6
140°	474.4	478.8	483.1	494.9	497.0
142.5°	497.0	501.4	503.1	512.5	513.9
145°	517.9	521.8	525.2	530.2	531.6
147.5°	537.1	542.2	544.5	546.3	546.2
150°	556.9	560.3	562.6	564.3	562.6
152.5°	574.5	577.9	580.7	583.0	580.7
155°	592.1	593.8	595.5	598.3	596.6
157.5°	607.4	608.5	609.6	613.6	610.8
160°	621.0	622.1	622.7	626.1	623.8
162.5°	633.4	633.4	634.0	638.0	635.1
165°	644.2	643.6	643.6	647.6	644.8
167.5°	653.8	652.1	652.1	656.1	653.3
170°	661.2	659.5	658.9	662.9	659.5
172.5°	666.3	664.6	664.0	668.0	664.6
175°	670.3	668.6	667.4	671.4	668.0
177.5°	672.5	670.8	669.7	673.1	669.7
180°	671.4	671.4	671.4	671.4	671.4

(END OF REPORT)