

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: P1009336

Luminaire Tested: S122DIP-B675D530UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009336
REPORT IS A COMBINATION OF REPORTS P984592 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D530UB50-4F0-XX-W2A-D
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

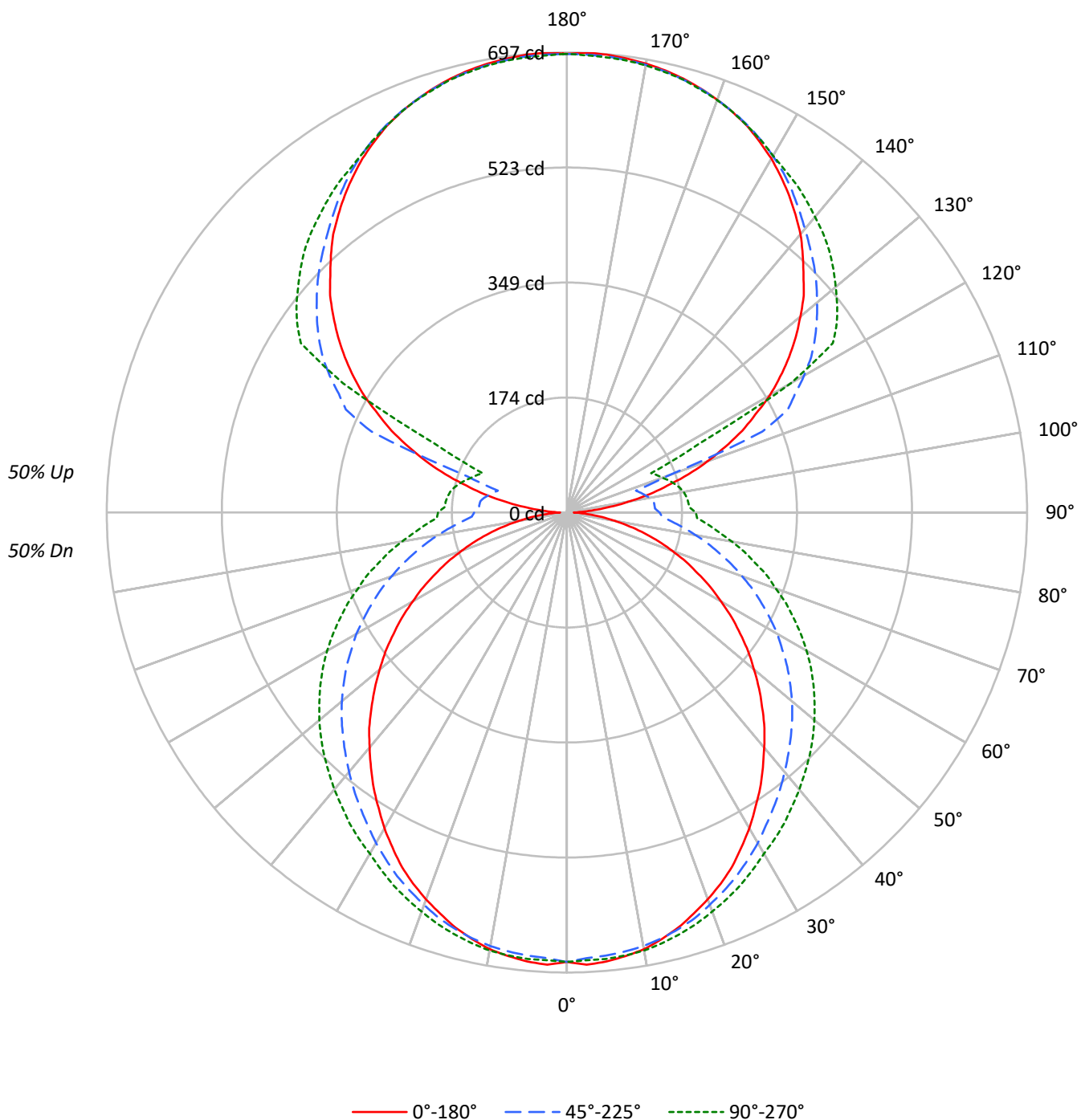
Lumens per Lamp: N/A
Luminaire Lumens: 4636.1 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 51.3
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56
1	96	91	87	83	88	84	80	77	71	68	65	58	56	54	47	46	44
2	87	79	72	66	80	73	67	62	61	57	53	50	47	44	41	38	36
3	79	69	61	55	72	63	57	51	53	48	44	44	40	37	35	33	30
4	72	61	52	46	66	56	48	43	47	41	37	39	35	31	31	28	26
5	66	54	45	39	60	50	42	36	42	36	31	35	30	27	28	25	22
6	61	48	40	34	56	44	37	31	38	32	27	31	27	23	25	22	19
7	56	43	35	29	51	40	33	27	34	28	24	28	24	20	23	20	17
8	52	39	31	26	48	36	29	24	31	25	21	26	21	18	21	18	15
9	48	36	28	23	44	33	26	21	28	23	19	24	19	16	20	16	14
10	45	33	25	20	41	30	24	19	26	21	17	22	18	15	18	15	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10778	10778	10778
5°	10827	10318	10260
10°	10754	9961	9815
15°	10602	9592	9359
20°	10410	9202	8927
25°	10222	8832	8535
30°	9957	8454	8146
35°	9689	8089	7860
40°	9407	7774	7577
45°	9138	7489	7329
50°	8848	7225	7085
55°	8545	6945	6838
60°	8175	6655	6577
65°	7789	6319	6275
70°	7349	5960	5953
75°	6791	5601	5646
80°	5908	5226	5331
85°	5015	4876	5058

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9138 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	1.4
10°-20°	185.1	4.0
20°-30°	280.5	6.1
30°-40°	341.6	7.4
40°-50°	367.5	7.9
50°-60°	356.9	7.7
60°-70°	311.7	6.7
70°-80°	239.9	5.2
80°-90°	161.9	3.5
90°-100°	133.8	2.9
100°-110°	166.4	3.6
110°-120°	279.9	6.0
120°-130°	405.5	8.7
130°-140°	411.5	8.9
140°-150°	373.0	8.0
150°-160°	298.2	6.4
160°-170°	192.1	4.1
170°-180°	66.1	1.4
0°-30°	530.2	11.4
0°-40°	871.7	18.8
0°-60°	1596.1	34.4
0°-90°	2309.6	49.8
90°-120°	580.1	12.5
90°-150°	1770.1	38.2
90°-180°	2326.0	50.2
0°-180°	4636.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	681	681	681	681	681	
5°	683	680	674	680	679	65
15°	651	653	653	662	661	183
25°	592	599	608	620	623	272
35°	510	527	546	567	574	319
45°	418	445	480	510	520	323
55°	321	356	408	443	456	287
65°	219	267	326	366	379	218
75°	121	177	240	282	295	128
85°	36	97	160	201	215	37
90°	10	73	140	182	195	9
95°	41	70	133	173	184	45
105°	158	202	116	156	168	169
115°	293	312	369	166	141	288
125°	411	417	458	488	499	367
135°	507	515	529	555	562	392
145°	587	586	595	604	607	367
155°	646	642	648	650	646	298
165°	681	678	679	683	679	192
175°	696	693	694	697	692	66
180°	695	695	695	695	695	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	680.9	680.9	680.9	680.9	680.9
2.5°	685.8	682.9	675.9	680.9	678.9
5°	682.9	679.9	674.0	679.9	678.9
7.5°	677.9	675.9	671.0	677.9	676.9
10°	672.0	670.0	667.1	675.0	674.0
12.5°	662.1	663.1	661.1	669.0	668.1
15°	651.3	653.3	653.3	662.1	661.1
17.5°	637.5	641.4	644.4	653.3	653.3
20°	623.6	628.6	632.5	643.4	643.4
22.5°	608.8	614.8	620.7	631.5	633.5
25°	592.1	599.0	607.9	619.7	622.7
27.5°	572.3	583.2	593.1	607.9	609.8
30°	552.6	565.4	578.3	594.0	597.0
32.5°	530.9	545.7	561.5	580.2	586.1
35°	510.2	526.9	545.7	567.4	574.3
37.5°	487.5	506.2	529.9	553.6	560.5
40°	464.8	486.5	513.1	538.8	547.7
42.5°	443.1	464.8	496.4	525.0	533.8
45°	418.4	445.0	479.6	510.2	520.0
47.5°	394.7	423.3	462.8	494.4	505.2
50°	370.0	400.6	445.0	478.6	489.4
52.5°	346.4	378.9	426.3	460.8	472.7
55°	320.7	356.2	407.5	443.1	455.9
57.5°	296.0	335.5	386.8	425.3	438.1
60°	269.4	311.8	368.1	405.6	419.4
62.5°	245.7	290.1	346.4	386.8	399.6
65°	219.1	267.4	325.6	366.1	378.9
67.5°	195.4	245.7	304.9	345.4	359.2
70°	169.7	221.0	282.2	324.7	336.5
72.5°	146.0	199.3	261.5	302.9	317.7
75°	121.4	176.6	239.8	282.2	295.0
77.5°	97.7	154.9	219.1	261.5	275.3
80°	74.0	134.2	198.3	239.8	253.6
82.5°	54.3	113.5	178.6	220.1	232.9
85°	35.5	96.7	159.9	201.3	215.1
87.5°	21.7	80.9	144.1	184.5	197.4
90°	10.4	73.1	140.4	182.3	195.2
92.5°	21.5	71.8	133.5	173.0	185.3
95°	40.6	70.4	133.1	173.1	184.4
97.5°	65.7	66.9	132.2	170.2	182.5
100°	95.9	63.5	127.4	167.9	179.7
102.5°	128.1	159.7	121.5	162.5	174.8
105°	157.7	201.5	115.6	155.6	168.5
107.5°	193.4	229.7	109.7	148.7	161.6
110°	226.6	257.0	160.0	141.3	154.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	258.8	283.6	320.5	135.4	147.8
115°	293.0	312.4	369.4	166.2	140.9
117.5°	321.7	339.7	389.6	347.3	225.5
120°	354.9	366.3	414.9	448.5	391.6
122.5°	383.1	392.0	438.7	468.3	477.7
125°	410.7	417.2	458.4	488.5	498.9
127.5°	436.9	442.9	477.0	506.8	516.2
130°	461.5	468.5	494.8	524.0	531.4
132.5°	486.6	492.2	512.5	539.7	547.1
135°	506.7	514.8	529.2	554.9	561.8
137.5°	528.9	534.9	544.8	568.6	574.0
140°	550.5	553.5	561.0	581.3	584.7
142.5°	568.6	571.1	577.6	593.4	595.9
145°	586.7	586.2	594.7	604.1	606.6
147.5°	603.3	601.8	610.3	613.8	614.7
150°	619.3	615.8	623.9	626.9	624.4
152.5°	632.9	628.9	636.4	639.5	635.9
155°	646.0	641.5	647.5	650.5	646.5
157.5°	656.5	652.5	657.1	660.6	656.5
160°	665.6	662.6	665.6	668.6	665.1
162.5°	673.6	670.6	673.1	676.7	672.1
165°	680.7	677.7	679.2	682.7	679.2
167.5°	686.2	683.2	684.7	688.2	683.7
170°	690.7	687.7	688.7	692.2	687.7
172.5°	693.7	690.7	691.7	695.3	690.7
175°	696.3	692.7	693.7	697.3	692.2
177.5°	697.3	693.7	694.3	697.8	693.2
180°	694.8	694.8	694.8	694.8	694.8

(END OF REPORT)