

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: P1009291

Luminaire Tested: S122DIP-B675D330UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009291
REPORT IS A COMBINATION OF REPORTS P984532 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D330UB50-4F0-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

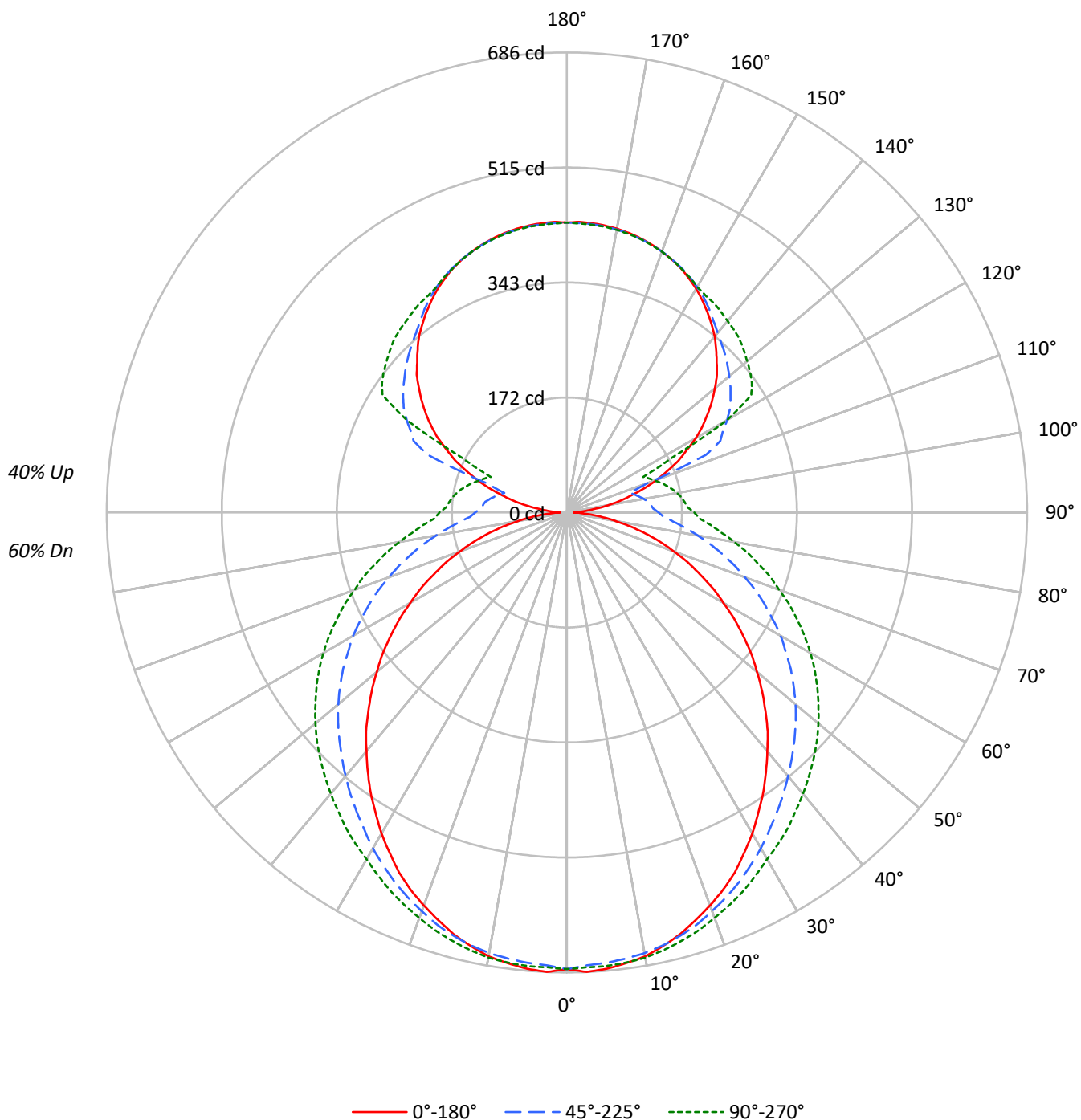
Lumens per Lamp: N/A
Luminaire Lumens: 3866.0 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 45.2
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	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65
1	98	93	88	84	91	87	83	79	75	72	69	65	62	60	55	53	51
2	89	80	73	67	82	75	69	63	65	60	56	56	52	49	47	44	42
3	80	70	62	55	75	65	58	52	57	51	46	49	44	40	41	38	35
4	73	62	53	46	68	58	50	44	50	44	39	43	38	34	36	33	30
5	67	55	46	39	62	51	43	37	45	38	33	38	33	29	33	29	25
6	62	49	40	34	57	46	38	32	40	34	29	35	29	26	29	25	22
7	57	44	36	30	53	41	34	28	36	30	25	31	26	22	27	23	20
8	53	40	32	26	49	38	30	25	33	27	22	29	24	20	25	21	17
9	49	36	29	23	46	34	27	22	30	24	20	26	21	18	23	19	16
10	46	33	26	21	43	32	25	20	28	22	18	24	20	16	21	17	14

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	1.7
10°-20°	185.1	4.8
20°-30°	280.5	7.3
30°-40°	341.6	8.8
40°-50°	367.5	9.5
50°-60°	356.9	9.2
60°-70°	311.7	8.1
70°-80°	239.9	6.2
80°-90°	161.4	4.2
90°-100°	125.1	3.2
100°-110°	134.1	3.5
110°-120°	194.4	5.0
120°-130°	263.5	6.8
130°-140°	260.8	6.7
140°-150°	232.8	6.0
150°-160°	185.5	4.8
160°-170°	119.5	3.1
170°-180°	41.1	1.1
0°-30°	530.2	13.7
0°-40°	871.7	22.5
0°-60°	1596.1	41.3
0°-90°	2309.1	59.7
90°-120°	453.6	11.7
90°-150°	1210.7	31.3
90°-180°	1557.0	40.3
0°-180°	3866.0	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	71	137	178	190	8
95°	28	64	126	165	176	30
105°	100	138	104	142	154	107
115°	184	200	252	137	125	181
125°	256	260	298	327	336	229
135°	316	321	333	357	364	244
145°	365	365	370	378	382	229
155°	402	399	403	405	402	185
165°	424	422	423	425	423	120
175°	433	431	432	434	431	41
180°	432	432	432	432	432	

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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°	10.2	70.9	136.6	177.5	190.0
92.5°	16.7	67.8	128.9	168.0	180.1
95°	28.2	64.3	125.7	164.8	176.2
97.5°	43.5	60.2	122.6	160.0	172.1
100°	62.3	55.9	116.5	155.5	167.0
102.5°	81.9	113.9	110.3	149.2	160.9
105°	100.0	138.1	104.0	141.9	154.1
107.5°	122.2	153.7	97.7	134.6	146.8
110°	142.5	168.8	126.7	127.1	139.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	162.5	183.9	224.0	120.8	132.6
115°	183.7	200.0	252.2	137.0	125.3
117.5°	201.3	215.5	262.2	247.0	175.0
120°	221.9	230.5	275.7	307.0	275.7
122.5°	239.5	245.4	288.2	316.7	325.9
125°	256.3	260.4	297.9	326.7	336.5
127.5°	272.6	275.9	307.2	335.1	344.3
130°	287.9	291.9	316.0	343.2	350.8
132.5°	303.5	306.6	324.8	350.3	357.9
135°	315.7	320.7	333.4	357.2	364.5
137.5°	329.4	333.2	341.2	363.1	369.1
140°	342.9	344.4	349.8	368.4	372.8
142.5°	354.1	355.3	359.4	373.7	377.1
145°	365.0	364.7	370.0	378.1	381.5
147.5°	375.3	374.4	379.7	382.3	383.9
150°	385.3	383.2	388.2	390.0	388.5
152.5°	393.8	391.3	396.0	397.9	395.7
155°	401.9	399.1	402.9	404.7	402.2
157.5°	408.5	406.0	408.8	411.0	408.5
160°	414.1	412.2	414.1	416.0	413.8
162.5°	419.1	417.2	418.8	421.0	418.2
165°	423.5	421.6	422.6	424.8	422.6
167.5°	426.9	425.1	426.0	428.2	425.4
170°	429.8	427.9	428.5	430.7	427.9
172.5°	431.6	429.8	430.4	432.6	429.8
175°	433.2	431.0	431.6	433.8	430.7
177.5°	433.8	431.6	431.9	434.1	431.3
180°	432.3	432.3	432.3	432.3	432.3

(END OF REPORT)