

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: P1009309

Luminaire Tested: S122DIP-B675D530UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009309
REPORT IS A COMBINATION OF REPORTS P984565 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D530UB30-4F0-XX-W2A-D
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

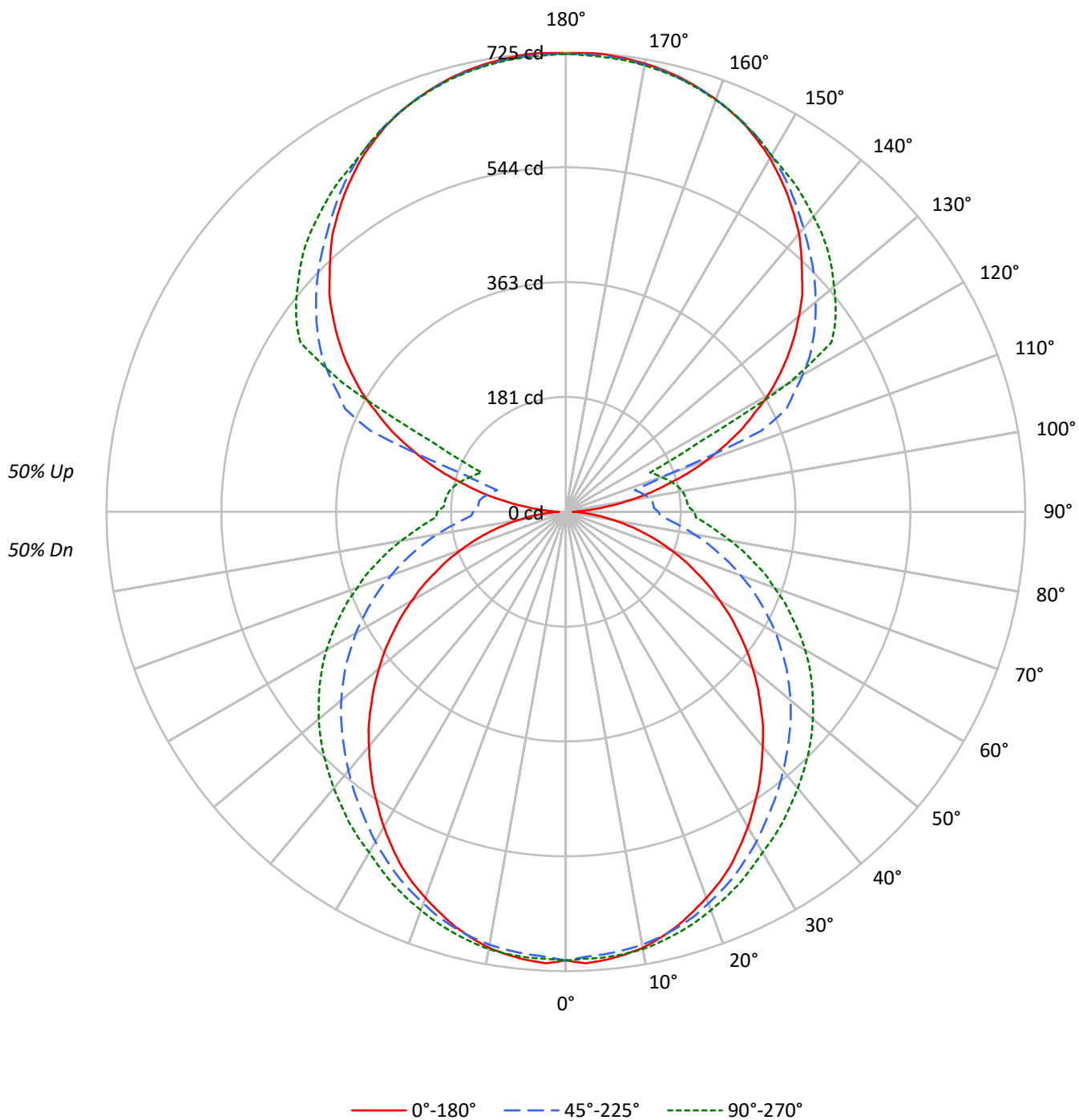
Lumens per Lamp: N/A
Luminaire Lumens: 4822.0 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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
RCR																	
0	107	107	107	107	99	99	99	99	83	83	83		69	69	69		56
1	96	91	87	83	88	84	80	77	71	68	65		58	56	54		47
2	87	79	72	66	80	73	67	62	61	57	53		50	47	44		41
3	79	69	61	55	72	63	57	51	53	48	44		44	40	37		35
4	72	61	52	46	66	56	48	43	47	41	37		39	35	31		31
5	66	54	45	39	60	50	42	36	42	36	31		35	30	27		28
6	61	48	40	34	56	44	37	31	38	32	27		31	27	23		25
7	56	43	35	29	51	40	33	27	34	28	24		28	24	20		23
8	52	39	31	26	48	36	29	24	31	25	21		26	21	18		21
9	48	36	28	23	44	33	26	21	28	23	19		24	19	16		20
10	45	33	25	20	41	30	24	19	26	21	17		22	18	15		18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11209	11209	11209
5°	11260	10732	10671
10°	11184	10360	10209
15°	11026	9975	9734
20°	10827	9570	9284
25°	10631	9185	8876
30°	10355	8791	8472
35°	10077	8412	8175
40°	9784	8086	7880
45°	9503	7789	7624
50°	9204	7516	7369
55°	8886	7225	7111
60°	8503	6921	6840
65°	8098	6573	6527
70°	7644	6199	6192
75°	7060	5826	5874
80°	6148	5436	5546
85°	5212	5071	5260

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9503 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	1.4
10°-20°	192.5	4.0
20°-30°	291.7	6.0
30°-40°	355.2	7.4
40°-50°	382.2	7.9
50°-60°	371.2	7.7
60°-70°	324.2	6.7
70°-80°	249.5	5.2
80°-90°	168.4	3.5
90°-100°	139.1	2.9
100°-110°	173.0	3.6
110°-120°	291.2	6.0
120°-130°	421.7	8.7
130°-140°	428.1	8.9
140°-150°	388.0	8.0
150°-160°	310.2	6.4
160°-170°	199.9	4.1
170°-180°	68.8	1.4
0°-30°	551.4	11.4
0°-40°	906.6	18.8
0°-60°	1660.0	34.4
0°-90°	2402.1	49.8
90°-120°	603.3	12.5
90°-150°	1841.2	38.2
90°-180°	2420.0	50.2
0°-180°	4822.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	708	708	708	708	708	
5°	710	707	701	707	706	67
15°	677	679	679	689	688	191
25°	616	623	632	644	648	283
35°	531	548	568	590	597	332
45°	435	463	499	531	541	336
55°	334	370	424	461	474	298
65°	228	278	339	381	394	226
75°	126	184	249	294	307	134
85°	37	101	166	209	224	39
90°	11	76	146	190	203	9
95°	42	73	138	180	192	47
105°	164	210	120	162	175	176
115°	305	325	384	173	147	300
125°	427	434	477	508	519	381
135°	527	535	550	577	584	408
145°	610	610	619	628	631	382
155°	672	667	674	677	672	310
165°	708	705	706	710	706	200
175°	724	721	722	725	720	69
180°	723	723	723	723	723	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	708.1	708.1	708.1	708.1	708.1
2.5°	713.3	710.2	703.0	708.1	706.1
5°	710.2	707.1	701.0	707.1	706.1
7.5°	705.1	703.0	697.9	705.1	704.0
10°	698.9	696.8	693.8	702.0	701.0
12.5°	688.6	689.7	687.6	695.8	694.8
15°	677.3	679.4	679.4	688.6	687.6
17.5°	663.0	667.1	670.2	679.4	679.4
20°	648.6	653.7	657.8	669.1	669.1
22.5°	633.2	639.4	645.5	656.8	658.9
25°	615.8	623.0	632.2	644.5	647.6
27.5°	595.2	606.5	616.8	632.2	634.2
30°	574.7	588.1	601.4	617.8	620.9
32.5°	552.1	567.5	584.0	603.5	609.6
35°	530.6	548.0	567.5	590.1	597.3
37.5°	507.0	526.5	551.1	575.7	582.9
40°	483.4	506.0	533.7	560.4	569.6
42.5°	460.8	483.4	516.2	546.0	555.2
45°	435.1	462.9	498.8	530.6	540.9
47.5°	410.5	440.3	481.3	514.2	525.5
50°	384.9	416.7	462.9	497.7	509.0
52.5°	360.2	394.1	443.4	479.3	491.6
55°	333.5	370.5	423.9	460.8	474.1
57.5°	307.9	348.9	402.3	442.3	455.7
60°	280.2	324.3	382.8	421.8	436.2
62.5°	255.5	301.7	360.2	402.3	415.6
65°	227.8	278.1	338.7	380.8	394.1
67.5°	203.2	255.5	317.1	359.2	373.6
70°	176.5	229.9	293.5	337.6	350.0
72.5°	151.9	207.3	272.0	315.1	330.5
75°	126.2	183.7	249.4	293.5	306.9
77.5°	101.6	161.1	227.8	272.0	286.3
80°	77.0	139.6	206.3	249.4	263.8
82.5°	56.4	118.0	185.8	228.9	242.2
85°	36.9	100.6	166.3	209.4	223.7
87.5°	22.6	84.2	149.8	191.9	205.3
90°	10.8	76.1	146.0	189.6	202.9
92.5°	22.3	74.6	138.8	179.9	192.7
95°	42.2	73.1	138.4	180.0	191.8
97.5°	68.4	69.6	137.5	177.0	189.9
100°	99.8	66.1	132.4	174.6	186.9
102.5°	133.3	166.0	126.3	169.0	181.9
105°	164.1	209.6	120.2	161.9	175.2
107.5°	201.2	239.0	114.0	154.7	168.1
110°	235.8	267.2	166.4	147.0	160.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	269.2	295.0	333.4	140.9	153.7
115°	304.8	325.0	384.3	172.9	146.6
117.5°	334.6	353.3	405.3	361.3	234.5
120°	369.2	381.1	431.5	466.6	407.3
122.5°	398.4	407.8	456.3	487.1	496.8
125°	427.3	434.1	476.8	508.1	518.9
127.5°	454.4	460.7	496.2	527.1	536.9
130°	480.1	487.3	514.7	545.0	552.7
132.5°	506.2	511.9	533.1	561.4	569.1
135°	527.1	535.4	550.5	577.2	584.4
137.5°	550.1	556.4	566.8	591.5	597.1
140°	572.6	575.8	583.6	604.7	608.2
142.5°	591.4	594.1	600.9	617.3	619.8
145°	610.3	609.8	618.6	628.5	631.0
147.5°	627.5	626.0	634.9	638.5	639.5
150°	644.3	640.6	649.0	652.1	649.5
152.5°	658.4	654.2	662.0	665.2	661.5
155°	672.0	667.3	673.6	676.7	672.5
157.5°	683.0	678.8	683.5	687.1	683.0
160°	692.4	689.2	692.4	695.5	691.9
162.5°	700.7	697.6	700.2	703.9	699.2
165°	708.1	704.9	706.5	710.2	706.5
167.5°	713.8	710.7	712.2	715.9	711.2
170°	718.5	715.4	716.4	720.1	715.4
172.5°	721.7	718.5	719.6	723.2	718.5
175°	724.3	720.6	721.7	725.3	720.1
177.5°	725.3	721.7	722.2	725.8	721.1
180°	722.7	722.7	722.7	722.7	722.7

(END OF REPORT)