

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: P1009549

Luminaire Tested: S122DIP-B865D530UB40-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009549
REPORT IS A COMBINATION OF REPORTS P984883 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D530UB40-4F0-XX-W2A-D
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

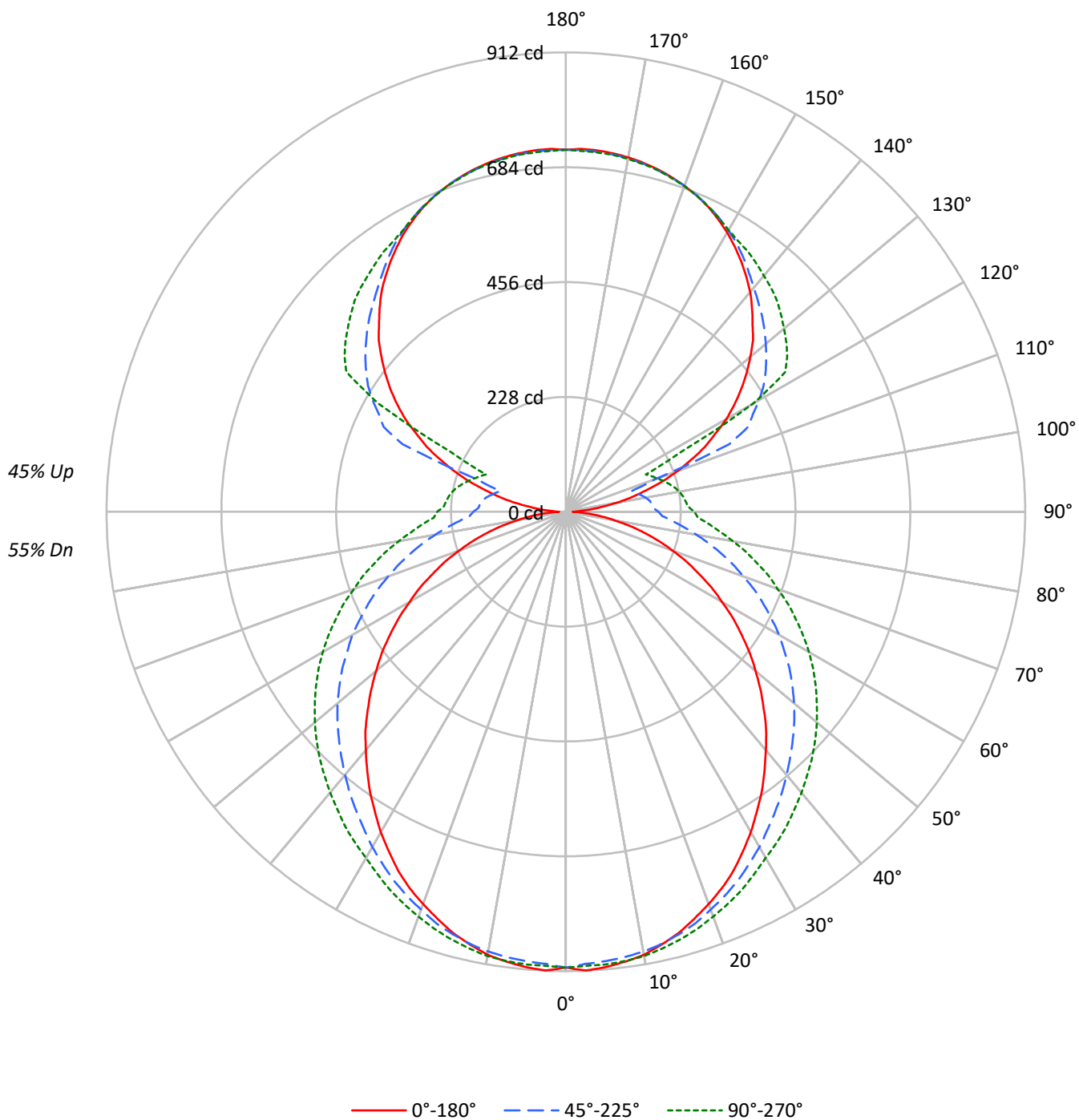
Lumens per Lamp: N/A
Luminaire Lumens: 5561.0 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 62.2
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

TEST NUMBER: P1009549

CATALOG NUMBER: S122DIP-B865D530UB40-4F0-XX-W2A-D

Luminous Intensity Polar Plot



TEST NUMBER: P1009549

CATALOG NUMBER: S122DIP-B865D530UB40-4F0-XX-W2A-D

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	67	62	60	57	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	64	57	52	55	50	45	47	42	39	39	35	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	50	43	37	43	37	32	37	32	28	31	27	24
6	61	49	40	34	57	45	37	32	39	33	28	33	28	24	28	24	21
7	57	44	35	29	52	41	33	28	35	29	25	30	25	21	25	21	18
8	53	40	32	26	49	37	30	25	32	26	22	27	23	19	23	19	16
9	49	36	28	23	45	34	27	22	29	24	19	25	20	17	21	17	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°	14326	14326	14326
5°	14390	13714	13636
10°	14294	13239	13046
15°	14091	12747	12439
20°	13837	12231	11864
25°	13585	11737	11343
30°	13234	11236	10827
35°	12878	10751	10447
40°	12502	10333	10070
45°	12145	9953	9742
50°	11761	9603	9417
55°	11357	9232	9087
60°	10863	8845	8741
65°	10352	8400	8341
70°	9770	7922	7911
75°	9023	7444	7505
80°	7856	6946	7087
85°	6667	6480	6723

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12145 cd/sqm

TEST NUMBER: P1009549

CATALOG NUMBER: S122DIP-B865D530UB40-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	1.5
10°-20°	246.0	4.4
20°-30°	372.8	6.7
30°-40°	454.0	8.2
40°-50°	488.4	8.8
50°-60°	474.4	8.5
60°-70°	414.3	7.4
70°-80°	318.8	5.7
80°-90°	214.8	3.9
90°-100°	171.0	3.1
100°-110°	195.9	3.5
110°-120°	305.3	5.5
120°-130°	428.1	7.7
130°-140°	429.3	7.7
140°-150°	386.4	6.9
150°-160°	308.4	5.5
160°-170°	198.7	3.6
170°-180°	68.4	1.2
0°-30°	704.6	12.7
0°-40°	1158.6	20.8
0°-60°	2121.4	38.1
0°-90°	3069.3	55.2
90°-120°	672.3	12.1
90°-150°	1916.1	34.5
90°-180°	2492.0	44.8
0°-180°	5561.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	905	905	905	905	905	
5°	908	904	896	904	902	86
15°	866	868	868	880	879	244
25°	787	796	808	824	828	362
35°	678	700	725	754	763	424
45°	556	592	637	678	691	429
55°	426	474	542	589	606	381
65°	291	355	433	487	504	289
75°	161	235	319	375	392	171
85°	47	128	212	268	286	50
90°	14	95	184	239	255	11
95°	44	89	171	224	239	48
105°	165	218	144	196	213	176
115°	304	328	400	198	175	299
125°	425	432	484	523	536	380
135°	524	533	550	583	593	406
145°	607	606	615	627	631	380
155°	668	664	670	673	669	308
165°	704	701	702	706	702	199
175°	720	716	718	721	716	69
180°	719	719	719	719	719	

TEST NUMBER: P1009549

CATALOG NUMBER: S122DIP-B865D530UB40-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	905.0	905.0	905.0	905.0	905.0
2.5°	911.5	907.6	898.4	905.0	902.3
5°	907.6	903.6	895.8	903.6	902.3
7.5°	901.0	898.4	891.8	901.0	899.7
10°	893.2	890.5	886.6	897.1	895.8
12.5°	880.0	881.3	878.7	889.2	887.9
15°	865.6	868.2	868.2	880.0	878.7
17.5°	847.2	852.5	856.4	868.2	868.2
20°	828.9	835.4	840.7	855.1	855.1
22.5°	809.2	817.1	825.0	839.4	842.0
25°	786.9	796.1	807.9	823.6	827.6
27.5°	760.7	775.1	788.2	807.9	810.5
30°	734.5	751.5	768.6	789.5	793.5
32.5°	705.6	725.3	746.3	771.2	779.1
35°	678.1	700.4	725.3	754.1	763.3
37.5°	647.9	672.8	704.3	735.8	745.0
40°	617.7	646.6	682.0	716.1	727.9
42.5°	588.9	617.7	659.7	697.7	709.5
45°	556.1	591.5	637.4	678.1	691.2
47.5°	524.6	562.6	615.1	657.1	671.5
50°	491.8	532.5	591.5	636.1	650.5
52.5°	460.3	503.6	566.6	612.5	628.2
55°	426.2	473.5	541.7	588.9	605.9
57.5°	393.5	445.9	514.1	565.3	582.3
60°	358.0	414.4	489.2	539.0	557.4
62.5°	326.6	385.6	460.3	514.1	531.2
65°	291.2	355.4	432.8	486.6	503.6
67.5°	259.7	326.6	405.3	459.0	477.4
70°	225.6	293.8	375.1	431.5	447.2
72.5°	194.1	264.9	347.6	402.6	422.3
75°	161.3	234.8	318.7	375.1	392.1
77.5°	129.8	205.9	291.2	347.6	365.9
80°	98.4	178.4	263.6	318.7	337.1
82.5°	72.1	150.8	237.4	292.5	309.5
85°	47.2	128.5	212.5	267.6	285.9
87.5°	28.9	107.5	191.5	245.3	262.3
90°	13.6	95.4	183.5	238.6	255.3
92.5°	24.8	92.2	173.8	226.0	242.2
95°	44.3	88.7	171.1	223.6	238.8
97.5°	70.0	83.8	168.1	218.3	234.5
100°	101.2	78.5	160.8	213.5	228.9
102.5°	134.3	176.4	152.7	205.6	221.6
105°	164.7	218.3	144.5	196.1	212.6
107.5°	201.6	246.0	136.4	186.7	203.2
110°	235.6	272.8	186.7	176.7	193.2

TEST NUMBER: P1009549

CATALOG NUMBER: S122DIP-B865D530UB40-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	268.8	299.2	350.8	168.5	184.6
115°	304.2	327.5	399.5	198.1	175.1
117.5°	333.6	354.5	418.4	383.5	260.3
120°	367.9	381.0	442.7	485.8	430.0
122.5°	397.0	406.6	465.6	504.1	516.5
125°	425.3	432.1	484.0	523.0	536.4
127.5°	452.4	458.4	501.6	539.6	551.9
130°	477.9	484.9	518.2	555.3	565.3
132.5°	503.9	509.3	534.7	569.5	579.5
135°	524.4	532.7	550.5	583.3	592.8
137.5°	547.3	553.5	565.3	595.4	603.1
140°	569.6	572.5	580.8	606.5	611.8
142.5°	588.4	590.7	597.5	617.3	621.3
145°	606.8	606.3	615.1	626.7	630.6
147.5°	624.0	622.4	631.3	635.2	637.0
150°	640.6	637.0	645.3	648.4	645.8
152.5°	654.7	650.5	658.3	661.4	657.8
155°	668.2	663.5	669.7	672.9	668.7
157.5°	679.1	674.9	679.6	683.3	679.1
160°	688.5	685.3	688.5	691.6	687.9
162.5°	696.8	693.7	696.3	699.9	695.2
165°	704.1	700.9	702.5	706.1	702.5
167.5°	709.8	706.7	708.2	711.9	707.2
170°	714.5	711.3	712.4	716.0	711.3
172.5°	717.6	714.5	715.5	719.1	714.5
175°	720.2	716.5	717.6	721.2	716.0
177.5°	721.2	717.6	718.1	721.7	717.1
180°	718.6	718.6	718.6	718.6	718.6

(END OF REPORT)