

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: P1009505

Luminaire Tested: S122DIP-B865D330UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009505
REPORT IS A COMBINATION OF REPORTS P984824 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D330UB40-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

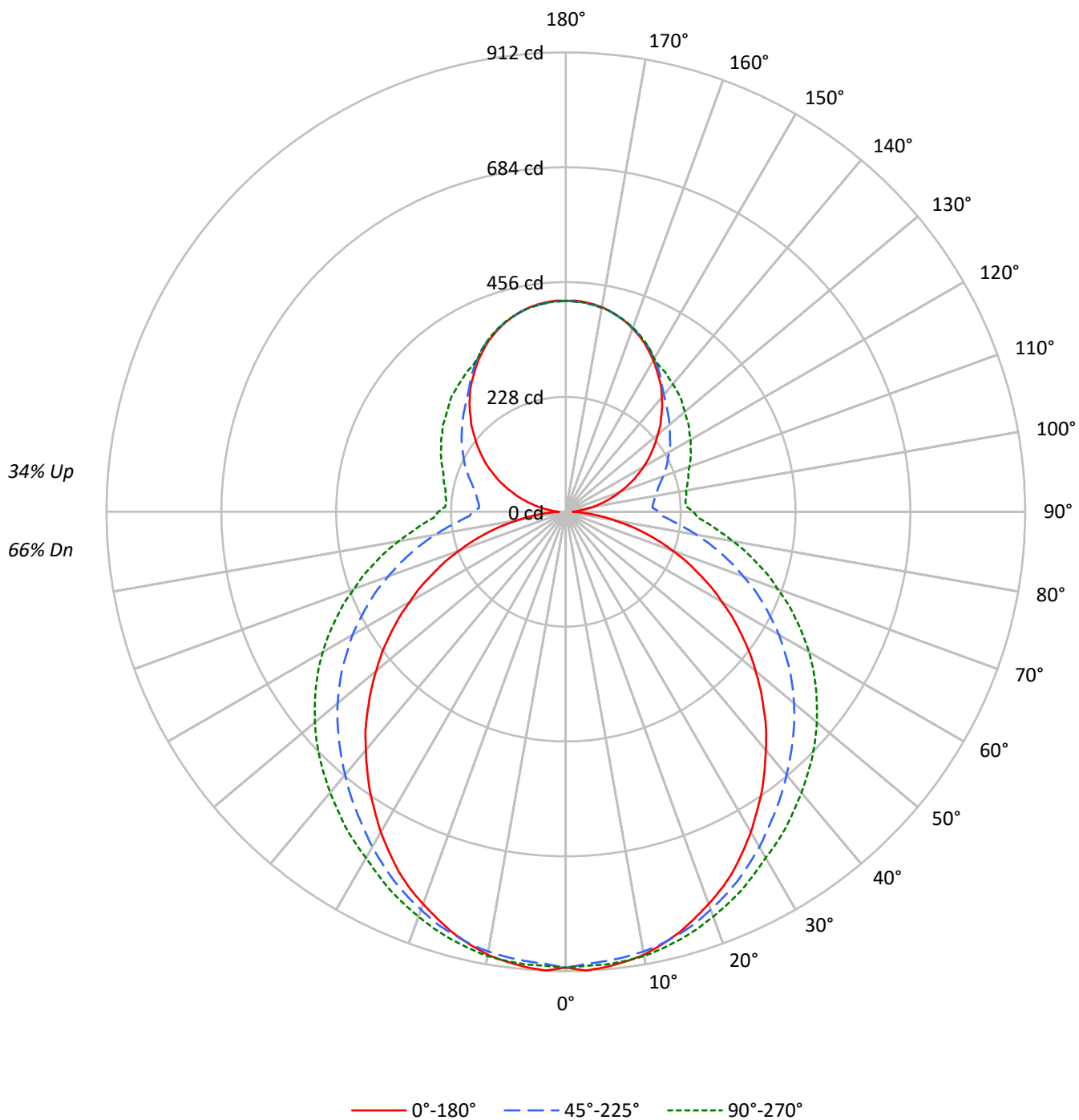
Lumens per Lamp: N/A
Luminaire Lumens: 4625.0 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
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: P1009505

CATALOG NUMBER: S122DIP-B865D330UB40-4F0-XX-W2A-D1

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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	111	111	111	111	105	105	105	105	92	92	92	81	81	81	71	71	71	66		
1	99	94	89	85	93	89	84	81	78	75	72	69	66	64	60	58	56	52		
2	90	81	74	68	84	76	70	65	67	62	58	59	55	52	51	48	46	42		
3	81	71	62	56	76	67	59	53	59	53	48	52	47	43	45	41	38	34		
4	74	62	53	47	69	59	51	45	52	45	40	46	40	36	40	36	32	29		
5	68	55	46	40	64	52	44	38	46	40	35	41	35	31	36	31	28	25		
6	63	49	41	34	59	47	39	33	42	35	30	37	31	27	32	28	24	22		
7	58	45	36	30	54	42	34	29	38	31	26	33	28	24	29	25	21	19		
8	54	41	32	26	50	38	31	25	34	28	23	31	25	21	27	22	19	17		
9	50	37	29	24	47	35	28	23	31	25	21	28	23	19	25	20	17	15		
10	47	34	26	21	44	32	25	20	29	23	19	26	21	17	23	19	16	14		

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: P1009505

CATALOG NUMBER: S122DIP-B865D330UB40-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	1.9
10°-20°	246.0	5.3
20°-30°	372.8	8.1
30°-40°	454.0	9.8
40°-50°	488.4	10.6
50°-60°	474.4	10.3
60°-70°	414.3	9.0
70°-80°	318.8	6.9
80°-90°	214.7	4.6
90°-100°	173.2	3.7
100°-110°	189.9	4.1
110°-120°	212.0	4.6
120°-130°	224.9	4.9
130°-140°	224.6	4.9
140°-150°	206.8	4.5
150°-160°	171.1	3.7
160°-170°	113.5	2.5
170°-180°	39.7	0.9
0°-30°	704.6	15.2
0°-40°	1158.6	25.1
0°-60°	2121.4	45.9
0°-90°	3069.3	66.4
90°-120°	575.1	12.4
90°-150°	1231.5	26.6
90°-180°	1556.0	33.6
0°-180°	4625.0	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	94	186	237	253	10
95°	29	94	173	223	238	29
105°	83	122	190	237	252	88
115°	147	163	222	260	274	145
125°	208	212	252	287	298	187
135°	267	271	285	312	322	207
145°	323	326	328	336	341	202
155°	369	370	371	373	372	170
165°	402	402	402	404	402	113
175°	418	417	416	419	417	40
180°	419	419	419	419	419	

TEST NUMBER: P1009505

CATALOG NUMBER: S122DIP-B865D330UB40-4F0-XX-W2A-D1

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°	13.5	93.8	185.5	237.3	253.3
92.5°	19.6	91.9	172.3	223.8	239.5
95°	28.9	94.0	173.4	223.3	238.3
97.5°	39.9	99.5	176.9	225.5	241.2
100°	54.1	105.4	180.0	228.5	242.5
102.5°	67.6	112.9	185.3	232.8	246.9
105°	82.6	121.6	190.5	237.2	251.6
107.5°	98.8	131.6	197.2	242.2	254.8
110°	113.0	141.4	205.6	247.6	260.9



TEST NUMBER: P1009505

CATALOG NUMBER: S122DIP-B865D330UB40-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	129.9	153.1	213.1	254.0	267.7
115°	146.6	163.2	221.5	260.4	273.9
117.5°	161.9	175.2	228.5	266.9	278.9
120°	178.5	186.6	236.2	273.0	286.3
122.5°	193.7	198.5	245.3	279.7	290.8
125°	208.3	211.5	252.4	286.7	298.2
127.5°	223.8	226.4	260.4	291.8	302.5
130°	238.3	241.6	268.5	299.2	308.3
132.5°	254.6	256.8	276.9	305.2	314.6
135°	267.4	271.3	285.1	312.3	321.8
137.5°	283.0	286.1	293.4	318.0	325.8
140°	296.7	298.6	303.0	324.0	330.5
142.5°	310.9	312.8	313.8	329.9	335.1
145°	323.0	325.5	327.6	335.9	340.9
147.5°	335.0	338.2	339.6	341.6	344.1
150°	347.4	349.5	350.9	352.0	350.9
152.5°	358.3	360.5	362.2	363.6	362.2
155°	369.3	370.4	371.4	373.2	372.1
157.5°	378.8	379.5	380.3	382.7	381.0
160°	387.3	388.0	388.4	390.5	389.1
162.5°	395.1	395.1	395.4	397.9	396.2
165°	401.8	401.5	401.5	403.9	402.2
167.5°	407.8	406.8	406.8	409.2	407.5
170°	412.4	411.4	411.0	413.5	411.4
172.5°	415.6	414.5	414.2	416.7	414.5
175°	418.1	417.0	416.3	418.8	416.7
177.5°	419.5	418.4	417.7	419.8	417.7
180°	418.8	418.8	418.8	418.8	418.8

(END OF REPORT)