

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: P1009506

Luminaire Tested: S122DIP-B865D330UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009506
REPORT IS A COMBINATION OF REPORTS P984825 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-D4
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

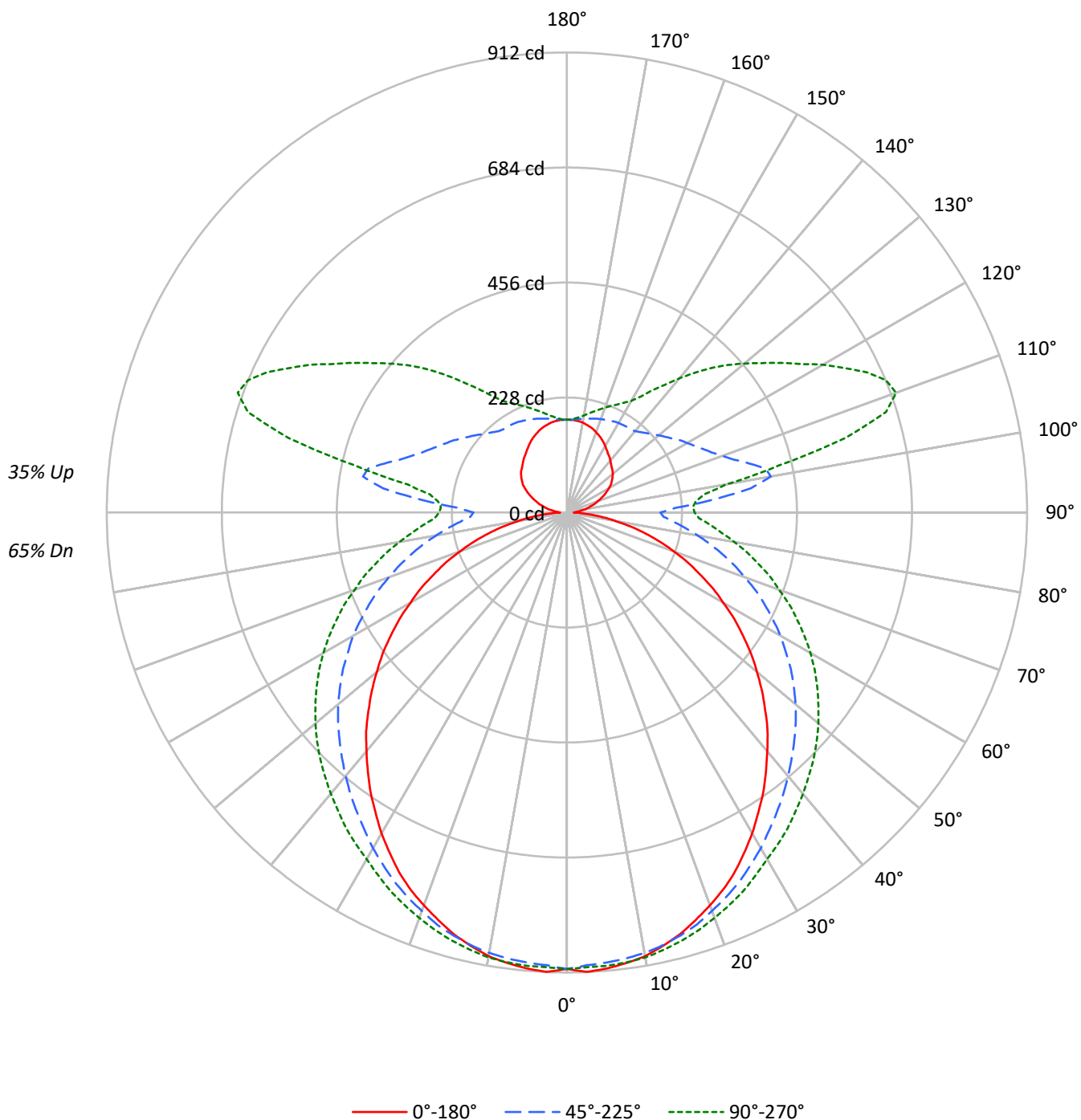
Lumens per Lamp: N/A
Luminaire Lumens: 4735.5 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

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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	111	111	111	111	104	104	104	104	92	92	92	80	80	80	70	70	70
1	99	94	89	85	93	88	84	80	77	74	71	68	65	63	59	57	55
2	90	81	74	68	84	76	70	64	67	62	58	58	54	51	50	47	45
3	81	71	62	56	76	66	59	53	58	52	48	51	46	42	44	40	37
4	74	62	53	47	69	58	50	44	51	45	40	45	40	36	39	35	32
5	68	55	46	40	63	52	44	38	46	39	34	40	35	31	35	31	27
6	62	49	41	34	58	47	39	33	41	35	30	36	31	27	32	27	24
7	58	44	36	30	54	42	34	29	37	31	26	33	28	24	29	24	21
8	54	40	32	26	50	38	31	25	34	28	23	30	25	21	26	22	19
9	50	37	29	23	47	35	28	23	31	25	21	28	22	19	24	20	17
10	47	34	26	21	44	32	25	20	29	23	19	26	20	17	23	18	15

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	1.8
10°-20°	246.0	5.2
20°-30°	372.8	7.9
30°-40°	454.0	9.6
40°-50°	488.4	10.3
50°-60°	474.4	10.0
60°-70°	414.3	8.7
70°-80°	318.8	6.7
80°-90°	214.7	4.5
90°-100°	221.8	4.7
100°-110°	359.4	7.6
110°-120°	335.8	7.1
120°-130°	257.3	5.4
130°-140°	191.6	4.0
140°-150°	135.0	2.8
150°-160°	92.9	2.0
160°-170°	54.7	1.2
170°-180°	17.8	0.4
0°-30°	704.6	14.9
0°-40°	1158.6	24.5
0°-60°	2121.4	44.8
0°-90°	3069.2	64.8
90°-120°	917.0	19.4
90°-150°	1500.8	31.7
90°-180°	1666.0	35.2
0°-180°	4735.5	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	185	237	253	10
95°	23	102	289	253	257	21
105°	50	110	375	627	571	53
115°	81	116	298	570	657	80
125°	109	128	255	446	517	97
135°	126	150	223	350	405	98
145°	142	163	207	265	296	89
155°	162	174	201	227	236	74
165°	176	181	193	204	208	50
175°	183	184	185	188	187	17
180°	184	184	184	184	184	

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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	94.0	185.1	237.1	253.0
92.5°	17.1	98.0	215.7	237.6	249.8
95°	22.9	102.5	289.3	253.0	256.7
97.5°	27.6	105.7	367.4	295.2	273.4
100°	36.4	106.8	410.4	388.8	320.6
102.5°	43.2	108.4	403.0	522.6	430.3
105°	49.7	109.6	374.7	626.8	571.4
107.5°	58.2	110.8	347.8	657.8	663.0
110°	65.3	112.2	327.9	640.6	694.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	73.1	114.6	311.0	608.6	684.4
115°	81.2	115.6	297.8	570.2	656.6
117.5°	88.4	118.0	285.8	534.4	620.0
120°	96.1	120.2	275.4	500.0	585.7
122.5°	103.6	123.8	266.2	472.3	547.7
125°	108.6	128.0	255.2	446.4	517.0
127.5°	113.9	133.3	246.3	421.5	486.3
130°	118.5	139.2	237.8	397.8	459.2
132.5°	122.8	144.8	229.5	373.6	432.7
135°	125.7	149.8	222.6	349.8	404.9
137.5°	129.6	154.0	216.1	325.8	376.3
140°	134.2	156.6	210.4	303.5	347.1
142.5°	138.8	159.8	207.8	283.0	319.2
145°	142.1	163.3	207.1	265.0	295.7
147.5°	147.0	166.1	206.0	249.4	272.7
150°	152.0	169.0	205.0	240.3	255.5
152.5°	156.9	171.8	203.2	233.8	245.3
155°	161.5	174.4	201.1	227.4	236.4
157.5°	165.4	176.5	199.0	221.4	228.7
160°	169.3	178.6	196.9	215.4	221.2
162.5°	173.2	180.2	195.1	209.8	214.2
165°	176.0	181.3	192.6	204.3	207.5
167.5°	178.5	182.4	190.5	199.3	201.1
170°	180.9	182.9	188.7	194.8	195.4
172.5°	182.4	183.4	186.6	190.6	190.8
175°	183.4	183.6	185.2	187.5	187.0
177.5°	184.1	183.8	183.8	185.2	184.1
180°	183.8	183.8	183.8	183.8	183.8

(END OF REPORT)