

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: P1009500

Luminaire Tested: S122DIP-B865D330UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009500
REPORT IS A COMBINATION OF REPORTS P984819 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D330UB35-4F0-XX-W2A-F4
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

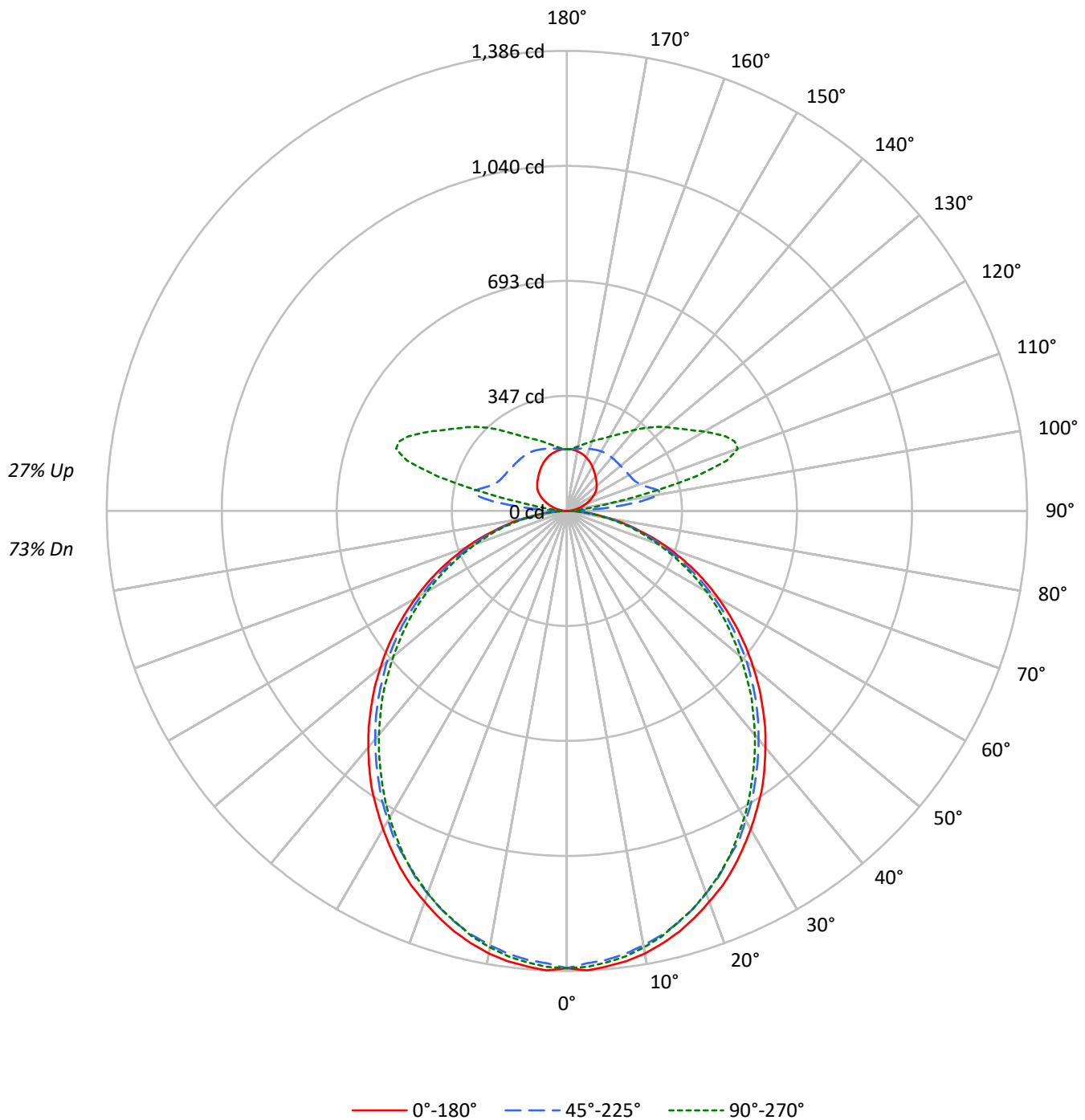
Lumens per Lamp: N/A
Luminaire Lumens: 4800.5 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77
1	103	98	94	91	98	94	90	87	84	82	79	76	74	72	68	67	65
2	94	86	80	74	89	82	76	71	74	70	66	67	63	60	60	57	55
3	86	76	68	62	81	72	65	60	65	60	55	59	55	51	53	50	47
4	78	67	59	53	74	64	57	51	58	52	47	53	48	44	48	44	40
5	72	60	52	45	68	57	50	44	52	46	41	47	42	38	43	39	35
6	67	54	46	39	63	52	44	38	47	41	36	43	38	33	39	35	31
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28
8	57	45	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25
9	54	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23
10	50	38	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21808	21808	21808
5°	21844	20787	20638
10°	21665	19840	19446
15°	21348	18885	18190
20°	20918	17847	17001
25°	20491	16763	15814
30°	19953	15744	14568
35°	19447	14668	13344
40°	18820	13607	12187
45°	18197	12556	11053
50°	17517	11485	9876
55°	16800	10340	8762
60°	15998	9101	7602
65°	15116	7841	6385
70°	13997	6463	5155
75°	12447	4982	3981
80°	10578	3386	2563
85°	7670	1576	1091

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 18197 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.7	2.7
10°-20°	364.8	7.6
20°-30°	536.1	11.2
30°-40°	622.7	13.0
40°-50°	621.9	13.0
50°-60°	542.3	11.3
60°-70°	400.8	8.4
70°-80°	226.8	4.7
80°-90°	61.0	1.3
90°-100°	75.3	1.6
100°-110°	254.4	5.3
110°-120°	267.4	5.6
120°-130°	219.9	4.6
130°-140°	176.7	3.7
140°-150°	133.5	2.8
150°-160°	93.9	2.0
160°-170°	55.3	1.2
170°-180°	18.0	0.4
0°-30°	1030.6	21.5
0°-40°	1653.3	34.4
0°-60°	2817.5	58.7
0°-90°	3506.2	73.0
90°-120°	597.1	12.4
90°-150°	1127.2	23.5
90°-180°	1294.0	27.0
0°-180°	4800.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1378	1378	1378	1378	1378	
5°	1378	1372	1358	1368	1366	131
15°	1311	1304	1286	1292	1285	369
25°	1187	1176	1154	1156	1154	546
35°	1024	1011	990	982	975	639
45°	833	824	804	790	784	643
55°	630	623	607	591	584	564
65°	425	417	404	392	386	420
75°	222	220	213	205	208	237
85°	54	53	52	48	46	61
90°	0	5	12	12	12	4
95°	12	31	140	53	41	13
105°	44	66	264	473	402	46
115°	77	97	221	457	529	76
125°	107	127	213	370	430	95
135°	126	150	210	311	356	97
145°	144	165	209	260	284	90
155°	163	176	203	230	239	75
165°	178	183	195	206	210	50
175°	185	185	187	189	189	18
180°	186	186	186	186	186	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1377.7	1377.7	1377.7	1377.7	1377.7
2.5°	1385.6	1379.0	1364.4	1377.7	1375.0
5°	1377.7	1372.4	1357.8	1368.4	1365.7
7.5°	1368.4	1360.4	1345.9	1356.5	1353.8
10°	1353.8	1344.5	1328.7	1339.2	1335.3
12.5°	1334.0	1326.0	1310.1	1316.7	1314.1
15°	1311.4	1303.5	1286.3	1291.6	1284.9
17.5°	1283.6	1275.7	1258.4	1265.1	1258.4
20°	1253.1	1245.2	1226.7	1230.6	1225.3
22.5°	1222.7	1210.8	1193.5	1193.5	1190.9
25°	1186.9	1176.3	1153.8	1156.4	1153.8
27.5°	1147.2	1137.9	1120.7	1116.7	1110.1
30°	1107.4	1096.8	1077.0	1073.0	1067.7
32.5°	1065.0	1057.1	1035.9	1028.0	1022.7
35°	1024.0	1010.7	989.5	981.6	975.0
37.5°	977.6	965.7	944.5	935.2	928.6
40°	929.9	919.3	898.1	886.2	880.9
42.5°	883.6	873.0	851.8	838.5	830.6
45°	833.2	823.9	804.1	789.5	784.2
47.5°	784.2	774.9	753.7	739.2	731.2
50°	732.5	725.9	707.4	688.8	682.2
52.5°	682.2	672.9	655.7	641.1	631.9
55°	630.5	622.6	606.7	590.8	584.2
57.5°	578.9	572.3	555.0	539.1	533.8
60°	527.2	521.9	503.4	488.8	484.8
62.5°	476.9	467.6	454.4	441.1	435.8
65°	425.2	417.3	404.0	392.1	385.5
67.5°	372.2	365.6	353.7	344.4	339.1
70°	323.2	317.9	306.0	296.7	291.4
72.5°	272.9	267.6	261.0	251.7	247.7
75°	222.5	219.9	213.3	205.3	208.0
77.5°	177.5	172.2	169.6	165.6	161.6
80°	132.5	131.1	128.5	124.5	121.9
82.5°	90.1	90.1	88.8	83.5	83.5
85°	54.3	53.0	51.7	47.7	46.4
87.5°	23.8	21.2	18.5	14.6	13.2
90°	0.4	4.8	12.1	11.6	11.8
92.5°	5.4	17.0	55.0	25.4	21.8
95°	12.5	30.7	139.9	52.8	40.7
97.5°	18.6	40.5	228.1	106.0	68.2
100°	27.5	49.6	282.0	211.2	127.8
102.5°	35.7	57.8	283.8	357.0	249.2
105°	43.6	65.7	264.5	472.8	402.3
107.5°	52.1	73.5	246.7	514.8	505.5
110°	60.7	81.6	234.5	508.0	547.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	68.5	89.2	226.7	485.0	546.9
115°	76.8	96.9	221.3	456.8	529.4
117.5°	85.3	104.6	218.5	429.8	503.0
120°	93.2	112.1	216.0	405.8	477.7
122.5°	100.7	119.8	214.6	387.0	451.2
125°	107.1	126.7	212.8	370.0	429.5
127.5°	112.5	133.4	211.7	355.6	409.1
130°	117.1	139.2	211.0	341.0	392.3
132.5°	121.4	144.9	210.6	325.8	374.9
135°	125.7	149.9	210.3	311.0	355.9
137.5°	129.6	154.2	210.3	296.0	337.7
140°	134.2	158.2	209.9	282.8	318.8
142.5°	138.9	161.4	209.9	270.0	299.9
145°	143.5	165.0	209.2	259.7	284.2
147.5°	148.5	167.8	208.1	250.6	270.3
150°	153.5	170.6	207.1	242.8	258.1
152.5°	158.5	173.5	205.3	236.2	247.8
155°	163.1	176.2	203.1	229.8	238.8
157.5°	167.1	178.3	201.0	223.7	231.0
160°	171.0	180.4	198.8	217.6	223.5
162.5°	174.9	182.0	197.1	211.9	216.3
165°	177.8	183.1	194.6	206.4	209.6
167.5°	180.3	184.2	192.4	201.4	203.1
170°	182.8	184.8	190.6	196.8	197.4
172.5°	184.2	185.2	188.5	192.6	192.8
175°	185.3	185.4	187.1	189.4	188.9
177.5°	186.0	185.6	185.6	187.1	186.0
180°	185.6	185.6	185.6	185.6	185.6

(END OF REPORT)