

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: P1011148

Luminaire Tested: S123DIP-B1000D365UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011148
REPORT IS A COMBINATION OF REPORTS P989193 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D365UB50-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

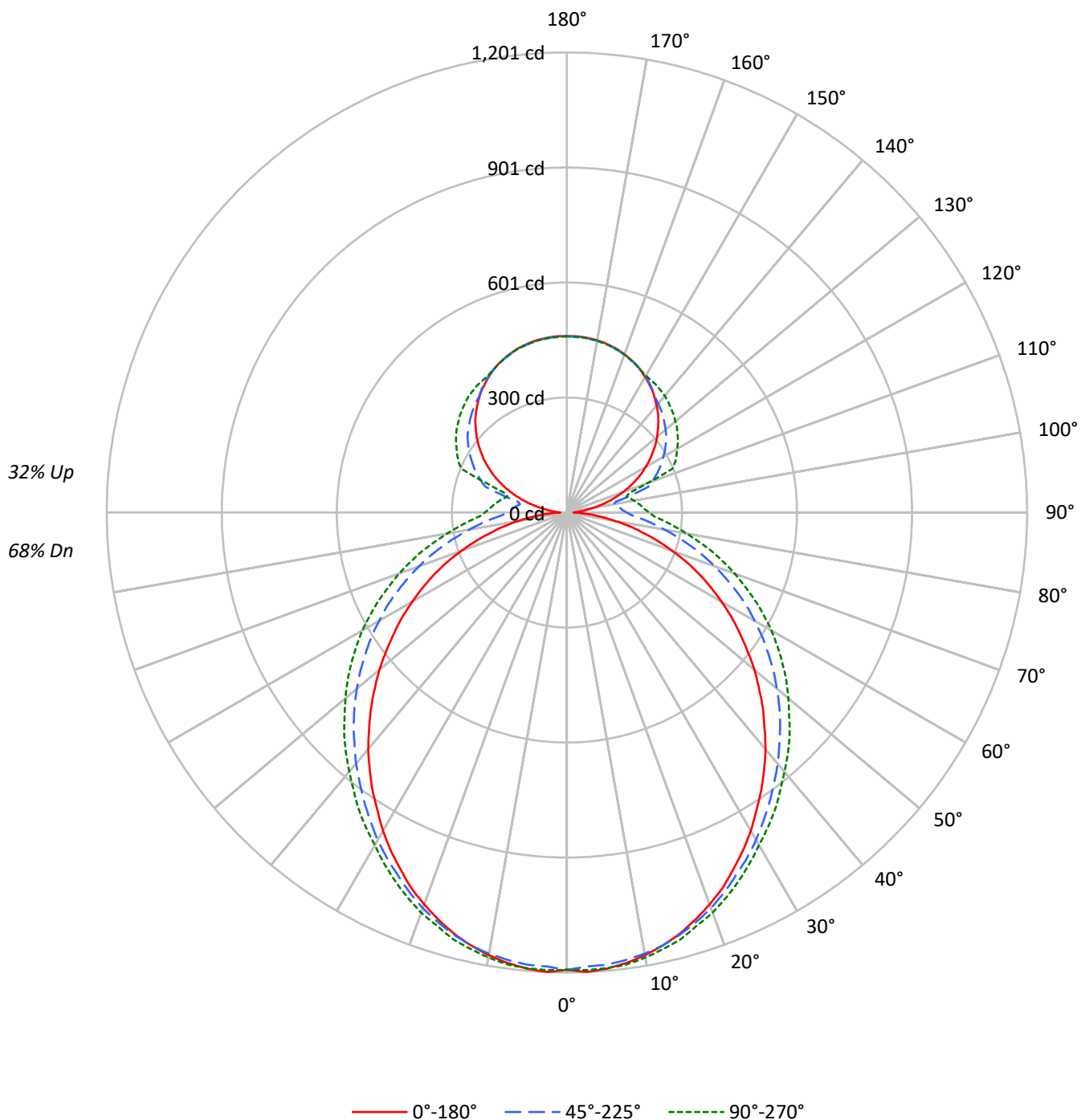
Lumens per Lamp: N/A
Luminaire Lumens: 5417.0 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	105	105	105	105	93	93	93	82	82	82	73	73	73
1	100	95	91	87	94	90	86	82	80	77	74	70	68	66	62	60	58
2	91	82	76	70	85	78	72	66	69	64	60	61	57	54	54	51	48
3	83	72	64	57	77	68	61	55	61	55	50	54	49	45	47	43	40
4	75	64	55	48	71	60	52	46	54	47	42	48	42	38	42	38	34
5	69	57	48	41	65	54	46	40	48	41	36	43	37	33	38	33	30
6	64	51	42	36	60	48	40	34	43	36	32	38	33	29	34	30	26
7	59	46	37	31	55	43	36	30	39	33	28	35	29	25	31	27	23
8	55	42	33	28	51	40	32	27	36	29	25	32	27	23	28	24	21
9	51	38	30	25	48	36	29	24	33	26	22	29	24	20	26	22	19
10	48	35	27	22	45	33	26	21	30	24	20	27	22	18	24	20	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12853	12853	12853
5°	12888	12476	12466
10°	12768	12138	12046
15°	12598	11764	11599
20°	12358	11349	11120
25°	12064	10880	10624
30°	11761	10457	10127
35°	11423	10011	9720
40°	11100	9605	9292
45°	10740	9211	8939
50°	10386	8821	8555
55°	9993	8421	8203
60°	9609	8011	7840
65°	9213	7575	7418
70°	8620	7085	6983
75°	7867	6528	6532
80°	6993	5962	6019
85°	6119	5505	5650

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10740 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.3	2.1
10°-20°	322.9	6.0
20°-30°	482.9	8.9
30°-40°	576.5	10.6
40°-50°	603.2	11.1
50°-60°	566.1	10.5
60°-70°	472.8	8.7
70°-80°	338.1	6.2
80°-90°	202.1	3.7
90°-100°	142.6	2.6
100°-110°	171.4	3.2
110°-120°	254.3	4.7
120°-130°	279.5	5.2
130°-140°	276.6	5.1
140°-150°	247.2	4.6
150°-160°	196.7	3.6
160°-170°	126.9	2.3
170°-180°	43.7	0.8
0°-30°	919.1	17.0
0°-40°	1495.6	27.6
0°-60°	2664.9	49.2
0°-90°	3677.9	67.9
90°-120°	568.4	10.5
90°-150°	1371.7	25.3
90°-180°	1739.0	32.1
0°-180°	5417.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1194	1194	1194	1194	1194	
5°	1195	1193	1185	1195	1194	113
15°	1138	1142	1141	1154	1152	321
25°	1028	1041	1044	1061	1061	474
35°	884	905	922	942	947	553
45°	723	754	787	812	822	558
55°	552	594	641	676	687	494
65°	381	432	489	528	541	377
75°	207	268	333	376	392	221
85°	64	129	198	242	255	66
90°	17	84	155	201	214	13
95°	35	72	139	182	195	36
105°	112	147	172	148	161	119
115°	198	215	265	300	312	196
125°	273	276	315	343	353	245
135°	338	339	354	379	384	260
145°	388	390	390	401	406	243
155°	426	426	426	428	426	196
165°	450	449	448	451	449	127
175°	460	458	459	461	458	44
180°	460	460	460	460	460	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1194.1	1194.1	1194.1	1194.1	1194.1
2.5°	1200.6	1196.7	1186.3	1196.7	1195.4
5°	1195.4	1192.8	1185.0	1195.4	1194.1
7.5°	1186.3	1186.3	1178.5	1191.5	1190.2
10°	1173.3	1175.9	1169.4	1182.4	1179.8
12.5°	1157.6	1161.5	1157.6	1169.4	1166.8
15°	1138.1	1142.0	1140.7	1153.7	1152.4
17.5°	1114.7	1122.5	1121.2	1132.9	1130.3
20°	1088.7	1096.5	1099.1	1110.8	1112.1
22.5°	1061.4	1069.2	1073.1	1088.7	1087.4
25°	1027.6	1040.6	1044.5	1061.4	1061.4
27.5°	995.1	1009.4	1017.2	1031.5	1032.8
30°	959.9	976.8	987.3	1002.9	1002.9
32.5°	920.9	940.4	954.7	971.6	975.5
35°	884.5	905.3	922.2	941.7	946.9
37.5°	845.5	868.9	888.4	910.5	914.4
40°	806.5	829.9	855.9	878.0	883.2
42.5°	763.5	793.4	820.8	845.5	853.3
45°	723.2	754.4	786.9	811.7	822.1
47.5°	680.3	715.4	751.8	779.1	786.9
50°	638.7	675.1	715.4	745.3	754.4
52.5°	594.4	633.5	679.0	710.2	721.9
55°	551.5	594.4	641.3	676.4	686.8
57.5°	509.9	554.1	604.8	640.0	651.7
60°	465.7	512.5	565.8	602.2	616.5
62.5°	424.0	472.2	529.4	565.8	578.8
65°	381.1	431.8	489.1	528.1	541.1
67.5°	338.2	391.5	448.8	491.7	502.1
70°	292.7	348.6	411.0	452.7	465.7
72.5°	251.0	307.0	372.0	414.9	427.9
75°	206.8	267.9	333.0	375.9	391.5
77.5°	169.1	230.2	295.3	340.8	352.5
80°	128.8	192.5	260.1	304.4	317.4
82.5°	93.7	158.7	227.6	271.9	284.9
85°	63.7	128.8	197.7	241.9	254.9
87.5°	39.0	104.1	170.4	214.6	227.6
90°	17.2	84.4	155.2	200.8	214.5
92.5°	23.5	77.3	145.5	190.8	202.8
95°	35.2	71.8	139.4	182.1	195.1
97.5°	51.0	88.2	131.9	173.7	187.0
100°	69.5	117.9	124.5	164.9	178.3
102.5°	90.8	131.6	130.7	155.8	169.5
105°	112.3	147.3	172.5	148.4	160.7
107.5°	133.9	164.3	222.8	205.3	172.2
110°	155.5	181.6	237.4	260.0	221.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	177.4	198.0	251.2	286.8	297.8
115°	197.6	215.3	265.2	299.9	311.7
117.5°	218.8	231.6	277.5	311.6	322.3
120°	237.0	246.6	290.5	323.2	332.4
122.5°	256.9	261.9	303.5	333.8	343.3
125°	273.3	276.1	315.1	343.1	352.9
127.5°	291.1	292.6	326.8	353.8	362.2
130°	307.5	309.0	336.3	362.4	369.5
132.5°	322.0	324.7	345.2	370.0	378.1
135°	338.0	338.8	354.5	378.9	384.4
137.5°	351.7	353.1	362.9	385.4	391.3
140°	364.1	366.1	371.1	391.9	397.8
142.5°	376.7	377.5	378.5	396.4	401.9
145°	388.4	389.5	390.1	401.2	406.4
147.5°	398.4	400.1	400.7	405.3	408.8
150°	408.6	409.6	410.3	411.0	412.6
152.5°	417.8	418.2	418.5	419.9	418.2
155°	426.4	425.7	426.0	427.8	425.7
157.5°	433.2	433.2	432.9	434.9	432.2
160°	439.4	439.0	438.7	440.7	438.4
162.5°	445.2	444.2	443.8	446.2	444.2
165°	449.6	448.6	448.3	451.0	448.6
167.5°	453.4	452.0	452.0	454.8	452.0
170°	456.5	455.1	455.1	457.8	455.1
172.5°	458.5	456.8	457.2	459.9	456.8
175°	460.2	458.5	458.9	461.3	458.5
177.5°	460.9	459.2	459.6	462.3	458.9
180°	460.2	460.2	460.2	460.2	460.2

(END OF REPORT)