

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: P1011139

Luminaire Tested: S123DIP-B1000D365UB40-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011139
REPORT IS A COMBINATION OF REPORTS P989184 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D365UB40-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

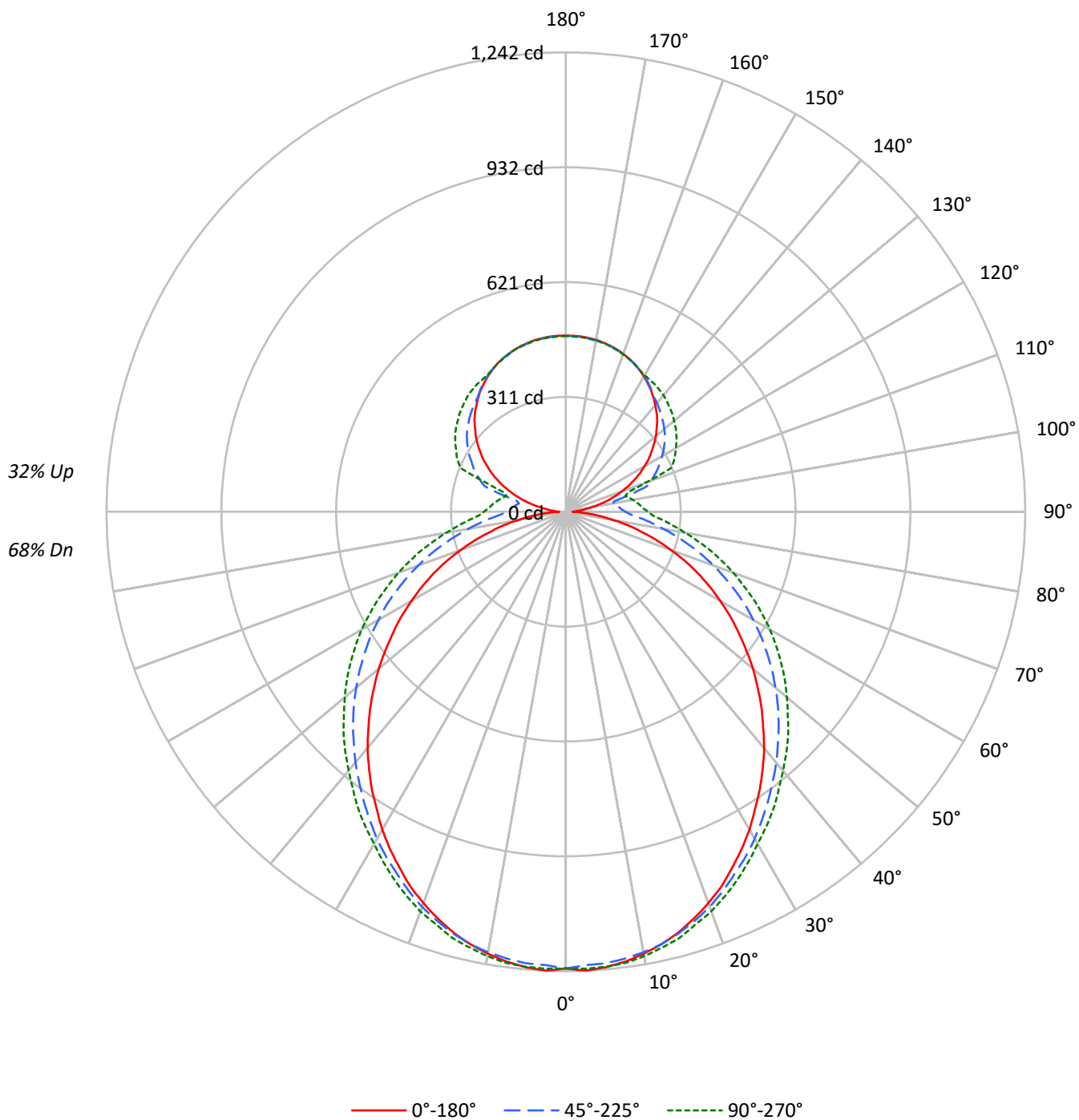
Lumens per Lamp: N/A
Luminaire Lumens: 5601.0 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	111	111	111	111	105	105	105	105	93	93	93		82	82	82		73	73	73	68
1	100	95	91	87	94	90	86	82	80	77	74		70	68	66		62	60	58	54
2	91	82	76	70	85	78	72	66	69	64	60		61	57	54		54	51	48	44
3	83	72	64	57	77	68	61	55	61	55	50		54	49	45		47	44	40	37
4	75	64	55	48	71	60	52	46	54	47	42		48	42	38		42	38	34	31
5	69	57	48	41	65	54	46	40	48	41	36		43	37	33		38	33	30	27
6	64	51	42	36	60	48	40	34	43	36	32		38	33	29		34	30	26	23
7	59	46	37	31	55	43	36	30	39	33	28		35	29	25		31	27	23	21
8	55	42	33	28	51	40	32	27	36	29	25		32	27	23		28	24	21	18
9	51	38	30	25	48	36	29	24	33	26	22		29	24	20		26	22	19	17
10	48	35	27	22	45	33	26	21	30	24	20		27	22	18		24	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13291	13291	13291
5°	13328	12901	12891
10°	13203	12552	12456
15°	13029	12166	11995
20°	12781	11736	11500
25°	12476	11251	10987
30°	12163	10814	10472
35°	11813	10353	10053
40°	11478	9932	9608
45°	11107	9525	9243
50°	10741	9122	8847
55°	10333	8708	8482
60°	9937	8284	8108
65°	9527	7834	7672
70°	8914	7328	7221
75°	8137	6751	6755
80°	7231	6166	6224
85°	6330	5695	5843

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11107 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	2.1
10°-20°	333.9	6.0
20°-30°	499.4	8.9
30°-40°	596.2	10.6
40°-50°	623.8	11.1
50°-60°	585.4	10.5
60°-70°	489.0	8.7
70°-80°	349.6	6.2
80°-90°	209.0	3.7
90°-100°	147.5	2.6
100°-110°	177.2	3.2
110°-120°	262.9	4.7
120°-130°	288.9	5.2
130°-140°	285.9	5.1
140°-150°	255.4	4.6
150°-160°	203.3	3.6
160°-170°	131.2	2.3
170°-180°	45.2	0.8
0°-30°	950.4	17.0
0°-40°	1546.6	27.6
0°-60°	2755.9	49.2
0°-90°	3803.5	67.9
90°-120°	587.6	10.5
90°-150°	1417.8	25.3
90°-180°	1798.0	32.1
0°-180°	5601.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1235	1235	1235	1235	1235	
5°	1236	1234	1225	1236	1235	117
15°	1177	1181	1180	1193	1192	332
25°	1063	1076	1080	1098	1098	490
35°	915	936	954	974	979	572
45°	748	780	814	839	850	577
55°	570	615	663	700	710	511
65°	394	447	506	546	560	390
75°	214	277	344	389	405	228
85°	66	133	204	250	264	68
90°	18	87	160	208	222	14
95°	36	74	144	188	202	37
105°	116	152	178	153	166	123
115°	204	223	274	310	322	202
125°	282	285	326	355	365	253
135°	349	350	366	392	397	269
145°	401	402	403	415	420	251
155°	441	440	440	442	440	203
165°	465	464	463	466	464	131
175°	476	474	474	477	474	45
180°	476	476	476	476	476	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1234.8	1234.8	1234.8	1234.8	1234.8
2.5°	1241.6	1237.5	1226.8	1237.5	1236.2
5°	1236.2	1233.5	1225.4	1236.2	1234.8
7.5°	1226.8	1226.8	1218.7	1232.1	1230.8
10°	1213.3	1216.0	1209.3	1222.7	1220.0
12.5°	1197.2	1201.2	1197.2	1209.3	1206.6
15°	1177.0	1181.0	1179.7	1193.1	1191.8
17.5°	1152.8	1160.8	1159.5	1171.6	1168.9
20°	1125.9	1133.9	1136.6	1148.7	1150.1
22.5°	1097.6	1105.7	1109.7	1125.9	1124.5
25°	1062.7	1076.1	1080.1	1097.6	1097.6
27.5°	1029.0	1043.8	1051.9	1066.7	1068.0
30°	992.7	1010.2	1021.0	1037.1	1037.1
32.5°	952.4	972.5	987.3	1004.8	1008.8
35°	914.7	936.2	953.7	973.9	979.3
37.5°	874.3	898.5	918.7	941.6	945.6
40°	834.0	858.2	885.1	908.0	913.3
42.5°	789.6	820.5	848.8	874.3	882.4
45°	747.9	780.2	813.8	839.4	850.1
47.5°	703.5	739.8	777.5	805.7	813.8
50°	660.5	698.1	739.8	770.8	780.2
52.5°	614.7	655.1	702.2	734.4	746.5
55°	570.3	614.7	663.2	699.5	710.2
57.5°	527.3	573.0	625.5	661.8	673.9
60°	481.6	530.0	585.1	622.8	637.6
62.5°	438.5	488.3	547.5	585.1	598.6
65°	394.1	446.6	505.8	546.1	559.6
67.5°	349.7	404.9	464.1	508.5	519.2
70°	302.7	360.5	425.1	468.1	481.6
72.5°	259.6	317.5	384.7	429.1	442.5
75°	213.9	277.1	344.4	388.7	404.9
77.5°	174.9	238.1	305.3	352.4	364.5
80°	133.2	199.1	269.0	314.8	328.2
82.5°	96.8	164.1	235.4	281.1	294.6
85°	65.9	133.2	204.5	250.2	263.6
87.5°	40.4	107.6	176.2	221.9	235.4
90°	17.9	87.3	160.5	207.6	221.8
92.5°	24.2	80.0	150.4	197.3	209.7
95°	36.4	74.4	144.2	188.3	201.7
97.5°	52.7	91.2	136.4	179.6	193.4
100°	71.8	122.0	128.7	170.5	184.3
102.5°	93.8	136.0	135.1	161.1	175.3
105°	116.1	152.2	178.3	153.3	166.2
107.5°	138.4	169.9	230.3	212.1	178.0
110°	160.8	187.8	245.5	268.8	229.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	183.4	204.6	259.6	296.4	307.9
115°	204.2	222.6	274.1	310.0	322.1
117.5°	226.1	239.4	286.9	322.0	333.2
120°	245.0	254.9	300.3	334.1	343.5
122.5°	265.5	270.7	313.8	345.1	354.9
125°	282.5	285.3	325.7	354.7	364.8
127.5°	300.8	302.4	337.7	365.7	374.4
130°	317.8	319.3	347.6	374.7	381.9
132.5°	332.8	335.6	356.8	382.5	390.8
135°	349.4	350.1	366.3	391.7	397.3
137.5°	363.5	364.9	375.1	398.4	404.4
140°	376.2	378.4	383.5	405.1	411.1
142.5°	389.3	390.1	391.2	409.7	415.4
145°	401.3	402.5	403.2	414.7	420.0
147.5°	411.7	413.5	414.2	418.9	422.5
150°	422.3	423.3	424.1	424.8	426.4
152.5°	431.8	432.2	432.5	433.9	432.2
155°	440.7	440.0	440.3	442.1	440.0
157.5°	447.7	447.7	447.4	449.5	446.7
160°	454.1	453.7	453.4	455.5	453.0
162.5°	460.1	459.0	458.7	461.2	459.0
165°	464.7	463.6	463.3	466.1	463.6
167.5°	468.6	467.2	467.2	470.0	467.2
170°	471.8	470.3	470.3	473.2	470.3
172.5°	473.9	472.1	472.5	475.3	472.1
175°	475.6	473.9	474.2	476.7	473.9
177.5°	476.4	474.6	474.9	477.8	474.2
180°	475.6	475.6	475.6	475.6	475.6

(END OF REPORT)