

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: P1011114

Luminaire Tested: S123DIP-B1000D365UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011114
REPORT IS A COMBINATION OF REPORTS P989144 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D365UB27-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

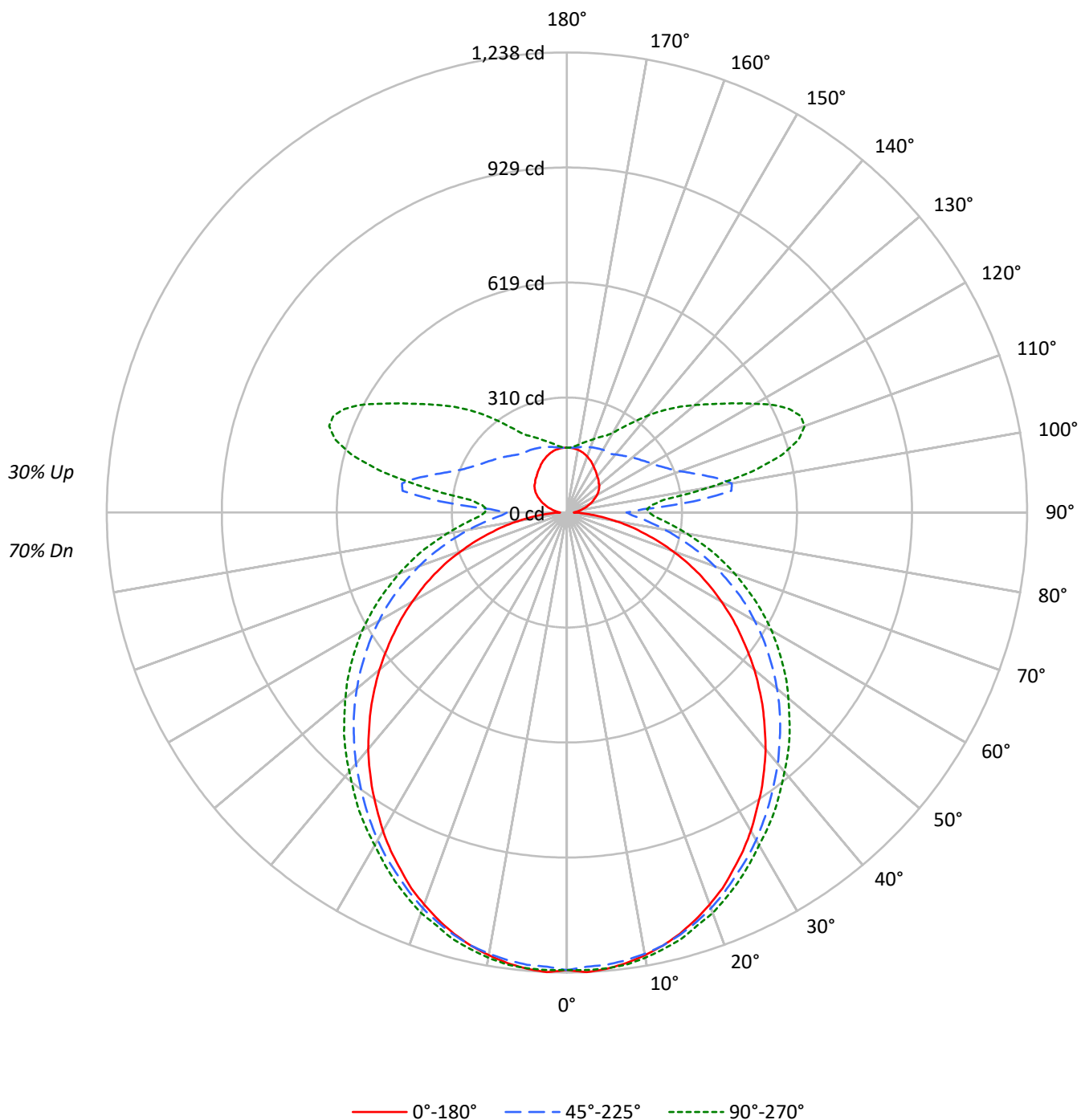
Lumens per Lamp: N/A
Luminaire Lumens: 5452.0 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

TEST NUMBER: P1011114

CATALOG NUMBER: S123DIP-B1000D365UB27-4F0-XX-W2A-D4

Luminous Intensity Polar Plot



TEST NUMBER: P1011114

CATALOG NUMBER: S123DIP-B1000D365UB27-4F0-XX-W2A-D4

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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74
1	101	96	91	87	95	90	86	83	81	77	75	72	69	67	63	61	60
2	91	83	76	70	86	78	72	67	70	65	61	62	58	55	55	52	49
3	83	72	64	58	78	68	61	55	61	55	50	54	50	46	48	44	41
4	76	64	55	48	71	60	53	46	54	48	43	48	43	39	43	39	35
5	69	57	48	41	65	54	46	40	48	42	37	43	38	33	38	34	30
6	64	51	42	36	60	48	40	35	43	37	32	39	33	29	35	30	27
7	59	46	37	31	56	44	36	30	39	33	28	35	30	26	32	27	24
8	55	42	34	28	52	40	32	27	36	30	25	32	27	23	29	25	21
9	51	38	30	25	48	36	29	24	33	27	22	30	25	21	27	22	19
10	48	35	27	22	45	34	26	22	30	24	20	28	22	19	25	20	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13254	13254	13254
5°	13289	12864	12854
10°	13165	12516	12420
15°	12991	12131	11960
20°	12743	11702	11467
25°	12439	11219	10956
30°	12127	10782	10442
35°	11778	10323	10023
40°	11445	9903	9581
45°	11075	9499	9217
50°	10708	9096	8821
55°	10304	8682	8458
60°	9909	8260	8084
65°	9500	7811	7650
70°	8888	7306	7200
75°	8114	6732	6735
80°	7210	6147	6207
85°	6311	5678	5827

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11075 cd/sqm

TEST NUMBER: P1011114

CATALOG NUMBER: S123DIP-B1000D365UB27-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.8	2.1
10°-20°	333.0	6.1
20°-30°	497.9	9.1
30°-40°	594.5	10.9
40°-50°	622.0	11.4
50°-60°	583.7	10.7
60°-70°	487.5	8.9
70°-80°	348.6	6.4
80°-90°	208.4	3.8
90°-100°	229.3	4.2
100°-110°	372.4	6.8
110°-120°	333.7	6.1
120°-130°	251.3	4.6
130°-140°	185.9	3.4
140°-150°	129.9	2.4
150°-160°	88.3	1.6
160°-170°	51.8	1.0
170°-180°	16.9	0.3
0°-30°	947.7	17.4
0°-40°	1542.2	28.3
0°-60°	2747.9	50.4
0°-90°	3792.5	69.6
90°-120°	935.5	17.2
90°-150°	1502.6	27.6
90°-180°	1660.0	30.4
0°-180°	5452.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1231	1231	1231	1231	1231	
5°	1233	1230	1222	1233	1231	117
15°	1174	1178	1176	1190	1188	331
25°	1060	1073	1077	1094	1094	488
35°	912	934	951	971	976	570
45°	746	778	812	837	848	575
55°	569	613	661	697	708	509
65°	393	445	504	544	558	388
75°	213	276	343	388	404	228
85°	66	133	204	250	263	68
90°	18	87	160	207	221	13
95°	27	106	342	235	229	24
105°	52	103	384	634	599	54
115°	79	113	288	579	659	79
125°	104	123	245	438	511	93
135°	120	142	216	342	396	93
145°	136	154	197	258	289	85
155°	153	165	191	217	226	70
165°	167	172	183	194	197	47
175°	174	174	175	178	177	17
180°	174	174	174	174	174	

TEST NUMBER: P1011114

CATALOG NUMBER: S123DIP-B1000D365UB27-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1231.3	1231.3	1231.3	1231.3	1231.3
2.5°	1238.0	1233.9	1223.2	1233.9	1232.6
5°	1232.6	1229.9	1221.9	1232.6	1231.3
7.5°	1223.2	1223.2	1215.2	1228.6	1227.2
10°	1209.8	1212.5	1205.8	1219.2	1216.5
12.5°	1193.7	1197.7	1193.7	1205.8	1203.1
15°	1173.6	1177.6	1176.3	1189.7	1188.3
17.5°	1149.4	1157.5	1156.2	1168.2	1165.5
20°	1122.6	1130.7	1133.3	1145.4	1146.8
22.5°	1094.5	1102.5	1106.5	1122.6	1121.3
25°	1059.6	1073.0	1077.0	1094.5	1094.5
27.5°	1026.1	1040.8	1048.9	1063.6	1064.9
30°	989.8	1007.3	1018.0	1034.1	1034.1
32.5°	949.6	969.7	984.5	1001.9	1005.9
35°	912.0	933.5	950.9	971.1	976.4
37.5°	871.8	895.9	916.1	938.9	942.9
40°	831.6	855.7	882.5	905.3	910.7
42.5°	787.3	818.2	846.3	871.8	879.9
45°	745.7	777.9	811.5	836.9	847.7
47.5°	701.5	737.7	775.2	803.4	811.5
50°	658.5	696.1	737.7	768.5	777.9
52.5°	612.9	653.2	700.1	732.3	744.4
55°	568.7	612.9	661.2	697.4	708.2
57.5°	525.8	571.4	623.7	659.9	672.0
60°	480.2	528.4	583.4	621.0	635.7
62.5°	437.2	486.9	545.9	583.4	596.9
65°	393.0	445.3	504.3	544.5	558.0
67.5°	348.7	403.7	462.7	507.0	517.7
70°	301.8	359.5	423.8	466.8	480.2
72.5°	258.9	316.5	383.6	427.9	441.3
75°	213.3	276.3	343.4	387.6	403.7
77.5°	174.4	237.4	304.5	351.4	363.5
80°	132.8	198.5	268.2	313.9	327.3
82.5°	96.6	163.6	234.7	280.3	293.7
85°	65.7	132.8	203.9	249.5	262.9
87.5°	40.2	107.3	175.7	221.3	234.7
90°	18.1	87.4	160.4	207.0	220.8
92.5°	21.4	94.9	206.4	207.5	215.9
95°	26.8	106.0	341.9	235.4	228.7
97.5°	32.4	106.3	446.2	318.4	262.3
100°	38.2	104.2	450.6	476.4	390.0
102.5°	44.2	102.8	419.5	575.8	509.7
105°	51.6	103.4	384.0	633.8	598.6
107.5°	58.1	105.1	351.6	653.6	653.4
110°	65.1	107.0	324.8	646.4	680.7

TEST NUMBER: P1011114

CATALOG NUMBER: S123DIP-B1000D365UB27-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	72.9	109.2	303.4	617.0	680.1
115°	79.0	112.8	287.9	578.7	659.4
117.5°	86.4	114.9	273.8	538.2	626.7
120°	92.8	117.0	263.2	499.5	584.9
122.5°	99.5	120.0	254.1	467.2	546.5
125°	104.5	122.6	245.3	437.8	510.6
127.5°	109.4	127.6	237.5	412.0	478.5
130°	114.0	133.4	229.7	387.8	449.4
132.5°	116.2	138.4	222.7	364.5	423.3
135°	120.5	141.8	215.6	342.2	395.6
137.5°	124.3	145.7	209.5	319.3	368.2
140°	126.8	149.2	203.9	298.2	341.0
142.5°	131.0	151.0	197.8	276.8	313.9
145°	135.6	153.9	197.1	258.4	288.6
147.5°	138.9	156.9	196.0	242.5	267.1
150°	143.5	159.4	194.6	230.4	247.7
152.5°	148.1	162.0	192.8	223.4	234.4
155°	152.7	164.6	190.7	216.8	226.0
157.5°	156.2	167.0	189.0	210.4	217.9
160°	160.4	168.8	186.8	204.6	210.1
162.5°	163.6	170.3	184.7	199.1	203.1
165°	166.8	171.5	182.6	193.7	197.1
167.5°	169.2	172.6	180.5	189.0	191.1
170°	171.3	173.1	178.4	184.8	185.8
172.5°	172.7	173.6	176.6	181.0	180.9
175°	173.8	174.0	175.2	177.7	177.3
177.5°	174.5	174.2	174.2	175.6	174.9
180°	174.2	174.2	174.2	174.2	174.2

(END OF REPORT)