

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: P1011112

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011112
REPORT IS A COMBINATION OF REPORTS P989142 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D365UB27-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

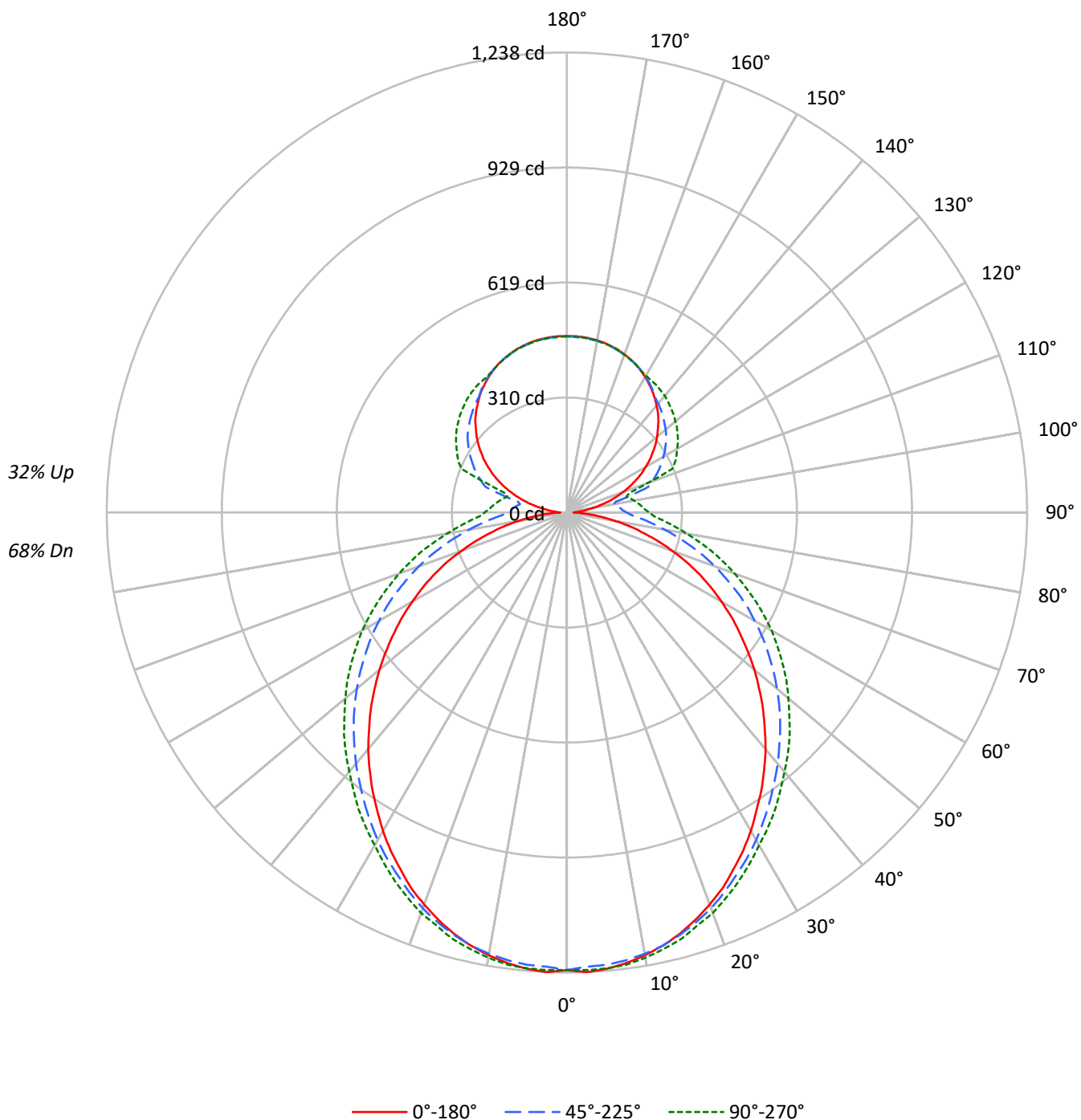
Lumens per Lamp: N/A
Luminaire Lumens: 5585.0 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	44	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°	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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.8	2.1
10°-20°	333.0	6.0
20°-30°	497.9	8.9
30°-40°	594.5	10.6
40°-50°	622.0	11.1
50°-60°	583.7	10.5
60°-70°	487.5	8.7
70°-80°	348.6	6.2
80°-90°	208.4	3.7
90°-100°	147.1	2.6
100°-110°	176.7	3.2
110°-120°	262.1	4.7
120°-130°	288.1	5.2
130°-140°	285.1	5.1
140°-150°	254.7	4.6
150°-160°	202.7	3.6
160°-170°	130.8	2.3
170°-180°	45.1	0.8
0°-30°	947.7	17.0
0°-40°	1542.2	27.6
0°-60°	2747.9	49.2
0°-90°	3792.5	67.9
90°-120°	585.9	10.5
90°-150°	1413.9	25.3
90°-180°	1792.0	32.1
0°-180°	5585.0	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	14
95°	36	74	144	188	201	37
105°	116	152	178	153	166	122
115°	204	222	273	309	321	202
125°	282	284	325	354	364	252
135°	348	349	365	390	396	268
145°	400	401	402	414	419	250
155°	439	439	439	441	439	202
165°	463	462	462	465	462	131
175°	474	473	473	475	473	45
180°	474	474	474	474	474	

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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°	17.8	87.1	160.1	207.1	221.2
92.5°	24.2	79.8	150.0	196.7	209.2
95°	36.3	74.1	143.7	187.8	201.2
97.5°	52.5	90.9	136.0	179.1	192.8
100°	71.7	121.6	128.3	170.0	183.8
102.5°	93.5	135.7	134.7	160.6	174.8
105°	115.7	151.8	177.8	152.9	165.7
107.5°	138.0	169.4	229.6	211.6	177.5
110°	160.2	187.3	244.7	268.0	228.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	182.8	204.1	258.9	295.6	307.0
115°	203.7	221.9	273.4	309.1	321.2
117.5°	225.5	238.7	286.1	321.1	332.2
120°	244.3	254.2	299.5	333.2	342.6
122.5°	264.8	269.8	312.8	344.1	353.9
125°	281.7	284.5	324.8	353.7	363.8
127.5°	300.0	301.5	336.8	364.7	373.4
130°	316.9	318.5	346.7	373.6	380.9
132.5°	331.8	334.7	355.8	381.3	389.7
135°	348.4	349.1	365.3	390.5	396.1
137.5°	362.5	363.9	374.0	397.3	403.3
140°	375.2	377.3	382.5	404.0	410.0
142.5°	388.2	389.1	390.1	408.6	414.2
145°	400.2	401.4	402.1	413.5	418.9
147.5°	410.6	412.3	413.0	417.7	421.4
150°	421.1	422.2	422.9	423.6	425.2
152.5°	430.6	431.0	431.3	432.8	431.0
155°	439.4	438.7	439.1	440.9	438.7
157.5°	446.5	446.5	446.1	448.3	445.4
160°	452.8	452.5	452.1	454.2	451.8
162.5°	458.8	457.8	457.4	459.9	457.8
165°	463.4	462.4	462.0	464.8	462.4
167.5°	467.3	465.9	465.9	468.7	465.9
170°	470.5	469.0	469.0	471.9	469.0
172.5°	472.6	470.8	471.2	474.0	470.8
175°	474.3	472.6	472.9	475.4	472.6
177.5°	475.0	473.3	473.6	476.5	472.9
180°	474.3	474.3	474.3	474.3	474.3

(END OF REPORT)