

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: P1010431

Luminaire Tested: S123DIP-B1000D365UB2750-4F0-XX-W2A-D_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010431
REPORT IS A COMBINATION OF REPORTS P989155 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D365UB2750-4F0-XX-W2A-D_3500K
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

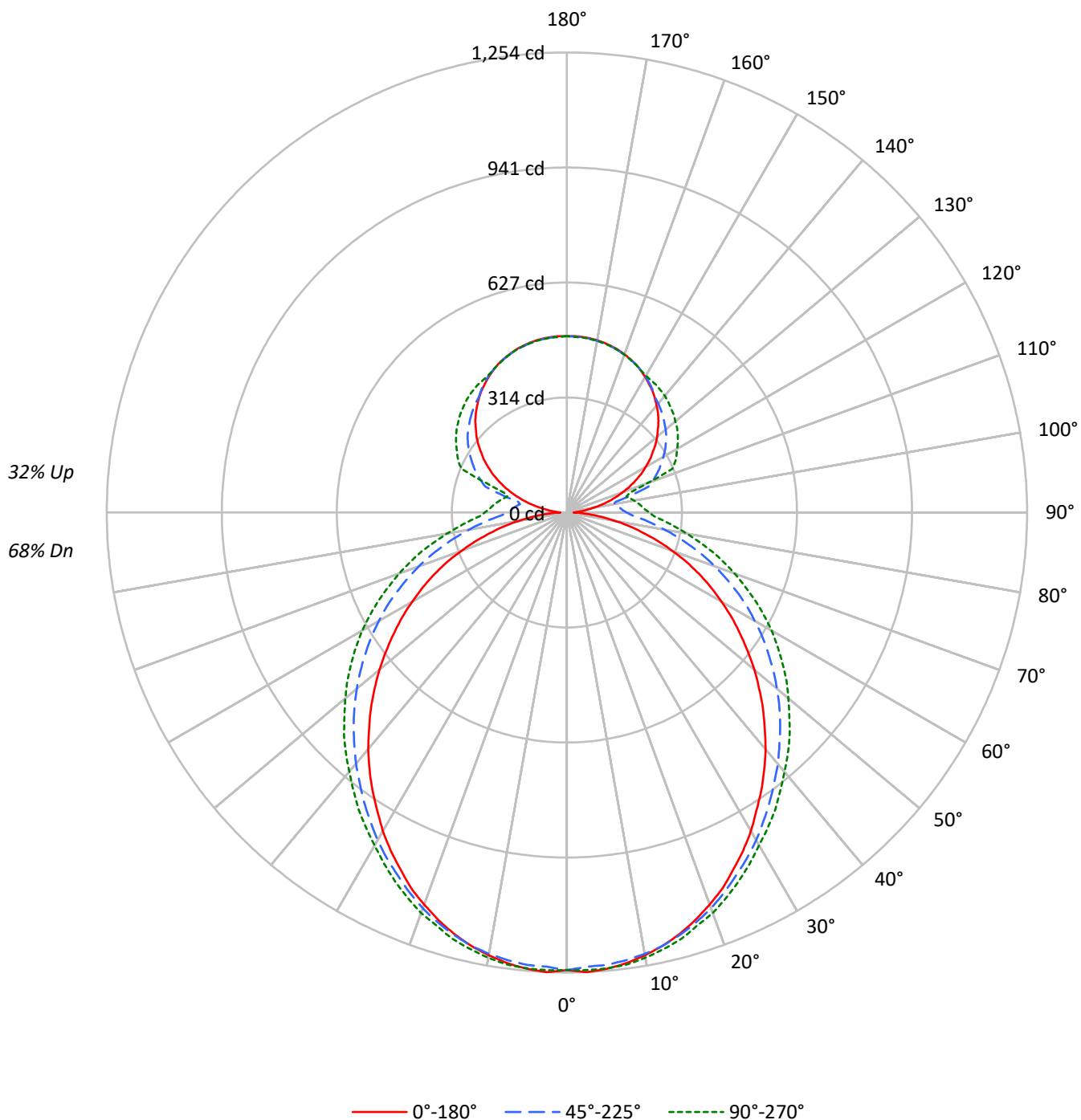
Lumens per Lamp: N/A
Luminaire Lumens: 5658.0 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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°	13426	13426	13426
5°	13463	13032	13021
10°	13337	12679	12583
15°	13160	12289	12116
20°	12910	11855	11616
25°	12602	11366	11098
30°	12287	10923	10578
35°	11931	10459	10154
40°	11594	10033	9706
45°	11220	9621	9337
50°	10848	9214	8937
55°	10439	8796	8568
60°	10037	8369	8190
65°	9624	7913	7749
70°	9003	7402	7293
75°	8217	6818	6823
80°	7302	6228	6287
85°	6397	5750	5902

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11220 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	2.1
10°-20°	337.3	6.0
20°-30°	504.4	8.9
30°-40°	602.3	10.6
40°-50°	630.1	11.1
50°-60°	591.3	10.5
60°-70°	493.9	8.7
70°-80°	353.2	6.2
80°-90°	211.1	3.7
90°-100°	149.0	2.6
100°-110°	179.0	3.2
110°-120°	265.6	4.7
120°-130°	291.9	5.2
130°-140°	288.9	5.1
140°-150°	258.1	4.6
150°-160°	205.4	3.6
160°-170°	132.5	2.3
170°-180°	45.7	0.8
0°-30°	960.1	17.0
0°-40°	1562.3	27.6
0°-60°	2783.8	49.2
0°-90°	3842.0	67.9
90°-120°	593.6	10.5
90°-150°	1432.4	25.3
90°-180°	1816.0	32.1
0°-180°	5658.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1247	1247	1247	1247	1247	
5°	1249	1246	1238	1249	1247	118
15°	1189	1193	1192	1205	1204	335
25°	1073	1087	1091	1109	1109	495
35°	924	946	963	984	989	578
45°	756	788	822	848	859	583
55°	576	621	670	706	717	516
65°	398	451	511	552	565	394
75°	216	280	348	393	409	231
85°	67	134	206	253	266	69
90°	18	88	162	210	224	14
95°	37	75	146	190	204	38
105°	117	154	180	155	168	124
115°	206	225	277	313	325	204
125°	285	288	329	358	369	255
135°	353	354	370	396	401	272
145°	406	407	407	419	424	254
155°	445	444	445	447	444	205
165°	470	468	468	471	468	133
175°	481	479	479	482	479	46
180°	481	481	481	481	481	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1247.3	1247.3	1247.3	1247.3	1247.3
2.5°	1254.1	1250.0	1239.2	1250.0	1248.7
5°	1248.7	1246.0	1237.8	1248.7	1247.3
7.5°	1239.2	1239.2	1231.0	1244.6	1243.3
10°	1225.6	1228.3	1221.5	1235.1	1232.4
12.5°	1209.3	1213.4	1209.3	1221.5	1218.8
15°	1188.9	1193.0	1191.6	1205.2	1203.8
17.5°	1164.4	1172.6	1171.2	1183.5	1180.7
20°	1137.3	1145.4	1148.1	1160.4	1161.7
22.5°	1108.7	1116.9	1121.0	1137.3	1135.9
25°	1073.4	1087.0	1091.1	1108.7	1108.7
27.5°	1039.4	1054.4	1062.5	1077.5	1078.8
30°	1002.8	1020.4	1031.3	1047.6	1047.6
32.5°	962.0	982.4	997.3	1015.0	1019.1
35°	923.9	945.7	963.4	983.7	989.2
37.5°	883.2	907.6	928.0	951.1	955.2
40°	842.4	866.9	894.1	917.2	922.6
42.5°	797.6	828.8	857.4	883.2	891.3
45°	755.5	788.1	822.0	847.9	858.7
47.5°	710.6	747.3	785.4	813.9	822.0
50°	667.1	705.2	747.3	778.6	788.1
52.5°	620.9	661.7	709.3	741.9	754.1
55°	576.1	620.9	669.9	706.5	717.4
57.5°	532.6	578.8	631.8	668.5	680.7
60°	486.4	535.3	591.1	629.1	644.0
62.5°	443.0	493.2	553.0	591.1	604.6
65°	398.1	451.1	510.9	551.7	565.2
67.5°	353.3	409.0	468.8	513.6	524.5
70°	305.7	364.1	429.4	472.8	486.4
72.5°	262.2	320.7	388.6	433.4	447.0
75°	216.0	279.9	347.8	392.7	409.0
77.5°	176.6	240.5	308.4	356.0	368.2
80°	134.5	201.1	271.7	317.9	331.5
82.5°	97.8	165.8	237.8	284.0	297.6
85°	66.6	134.5	206.5	252.7	266.3
87.5°	40.8	108.7	178.0	224.2	237.8
90°	18.1	88.1	162.1	209.7	224.0
92.5°	24.5	80.8	152.0	199.3	211.8
95°	36.7	75.0	145.6	190.2	203.8
97.5°	53.2	92.1	137.8	181.4	195.3
100°	72.5	123.2	130.0	172.2	186.2
102.5°	94.8	137.4	136.5	162.7	177.1
105°	117.3	153.8	180.1	155.0	167.9
107.5°	139.8	171.5	232.7	214.3	179.8
110°	162.4	189.7	248.0	271.5	231.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	185.3	206.8	262.3	299.5	311.0
115°	206.4	224.8	276.9	313.1	325.4
117.5°	228.5	241.9	289.9	325.4	336.5
120°	247.5	257.5	303.5	337.5	347.0
122.5°	268.2	273.5	317.0	348.7	358.5
125°	285.4	288.3	329.1	358.3	368.6
127.5°	304.0	305.5	341.2	369.5	378.3
130°	321.1	322.6	351.2	378.5	385.9
132.5°	336.2	339.0	360.5	386.4	394.9
135°	352.9	353.8	370.1	395.7	401.4
137.5°	367.2	368.8	379.0	402.5	408.6
140°	380.2	382.4	387.4	409.3	415.3
142.5°	393.4	394.2	395.2	414.0	419.7
145°	405.6	406.7	407.4	419.0	424.4
147.5°	415.9	417.7	418.4	423.3	426.9
150°	426.7	427.7	428.4	429.2	430.8
152.5°	436.3	436.6	437.0	438.4	436.6
155°	445.2	444.5	444.9	446.6	444.5
157.5°	452.4	452.4	452.0	454.1	451.3
160°	458.8	458.4	458.1	460.2	457.7
162.5°	464.9	463.8	463.4	465.9	463.8
165°	469.5	468.4	468.1	470.9	468.4
167.5°	473.4	472.0	472.0	474.9	472.0
170°	476.6	475.2	475.2	478.1	475.2
172.5°	478.8	477.0	477.4	480.2	477.0
175°	480.6	478.8	479.1	481.6	478.8
177.5°	481.3	479.5	479.8	482.7	479.1
180°	480.6	480.6	480.6	480.6	480.6

(END OF REPORT)