

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: P1011132

Luminaire Tested: S123DIP-B1000D365UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011132
REPORT IS A COMBINATION OF REPORTS P989177 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D365UB35-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

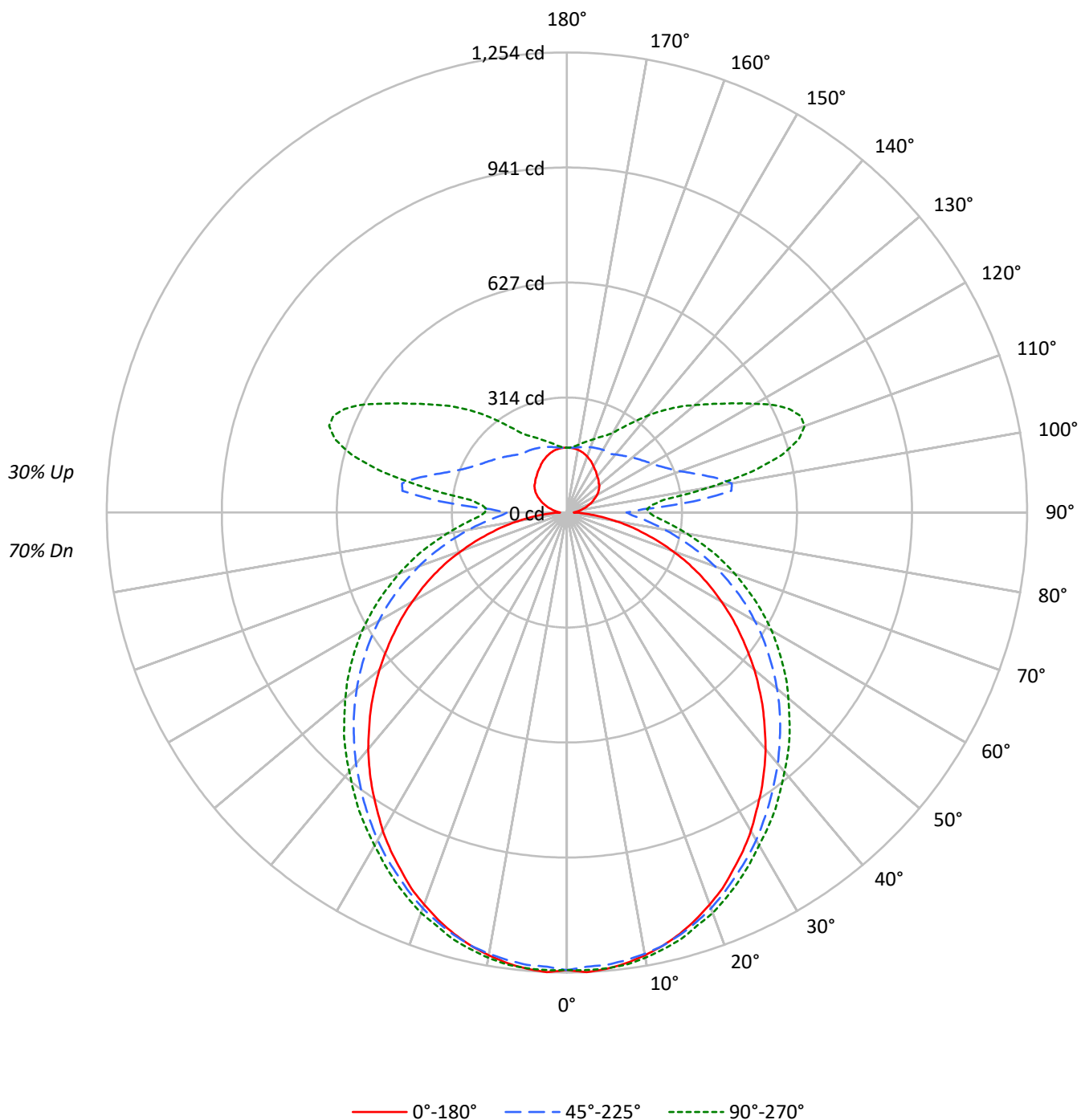
Lumens per Lamp: N/A
Luminaire Lumens: 5523.1 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	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	44	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°	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	6.1
20°-30°	504.4	9.1
30°-40°	602.3	10.9
40°-50°	630.1	11.4
50°-60°	591.3	10.7
60°-70°	493.9	8.9
70°-80°	353.2	6.4
80°-90°	211.1	3.8
90°-100°	232.3	4.2
100°-110°	377.3	6.8
110°-120°	338.1	6.1
120°-130°	254.6	4.6
130°-140°	188.3	3.4
140°-150°	131.6	2.4
150°-160°	89.4	1.6
160°-170°	52.5	1.0
170°-180°	17.1	0.3
0°-30°	960.1	17.4
0°-40°	1562.3	28.3
0°-60°	2783.8	50.4
0°-90°	3842.0	69.6
90°-120°	947.6	17.2
90°-150°	1522.1	27.6
90°-180°	1681.0	30.4
0°-180°	5523.1	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°	27	107	346	238	232	25
105°	52	105	389	642	606	55
115°	80	114	292	586	668	80
125°	106	124	248	443	517	95
135°	122	144	218	347	401	94
145°	138	156	200	262	292	86
155°	155	167	193	220	229	71
165°	169	174	185	196	200	48
175°	176	176	178	180	180	17
180°	176	176	176	176	176	

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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°	18.4	88.4	162.4	209.7	223.7
92.5°	21.7	96.1	209.1	210.2	218.6
95°	27.0	107.4	346.3	238.4	231.6
97.5°	32.9	107.7	452.1	322.4	265.7
100°	38.6	105.6	456.4	482.6	395.1
102.5°	44.8	104.0	425.1	583.2	516.3
105°	52.3	104.8	389.0	642.2	606.5
107.5°	58.8	106.4	356.3	661.9	662.0
110°	66.1	108.3	329.1	654.8	689.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	73.9	110.6	307.4	625.0	688.9
115°	80.0	114.4	291.6	586.2	668.0
117.5°	87.5	116.4	277.5	545.2	634.8
120°	94.0	118.4	266.7	506.0	592.4
122.5°	100.8	121.6	257.4	473.4	553.6
125°	105.9	124.2	248.5	443.4	517.2
127.5°	110.9	129.3	240.6	417.4	484.8
130°	115.5	135.0	232.7	392.8	455.3
132.5°	117.7	140.1	225.6	369.4	428.9
135°	122.0	143.7	218.4	346.7	400.8
137.5°	125.9	147.6	212.3	323.5	372.9
140°	128.5	151.2	206.5	302.0	345.4
142.5°	132.8	153.0	200.3	280.6	318.1
145°	137.5	155.9	199.6	261.8	292.4
147.5°	140.7	158.9	198.6	245.6	270.6
150°	145.3	161.4	197.1	233.4	250.9
152.5°	150.0	164.1	195.3	226.2	237.5
155°	154.6	166.8	193.2	219.6	228.9
157.5°	158.2	169.1	191.4	213.2	220.7
160°	162.5	171.0	189.3	207.4	212.8
162.5°	165.7	172.5	187.1	201.8	205.7
165°	168.9	173.8	185.0	196.2	199.6
167.5°	171.4	174.8	182.8	191.4	193.6
170°	173.6	175.4	180.7	187.2	188.2
172.5°	175.0	175.9	178.9	183.4	183.2
175°	176.1	176.2	177.5	180.0	179.6
177.5°	176.8	176.4	176.4	177.8	177.1
180°	176.4	176.4	176.4	176.4	176.4

(END OF REPORT)