

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: P1011149

Luminaire Tested: S123DIP-B1000D365UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011149
REPORT IS A COMBINATION OF REPORTS P989194 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D365UB50-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

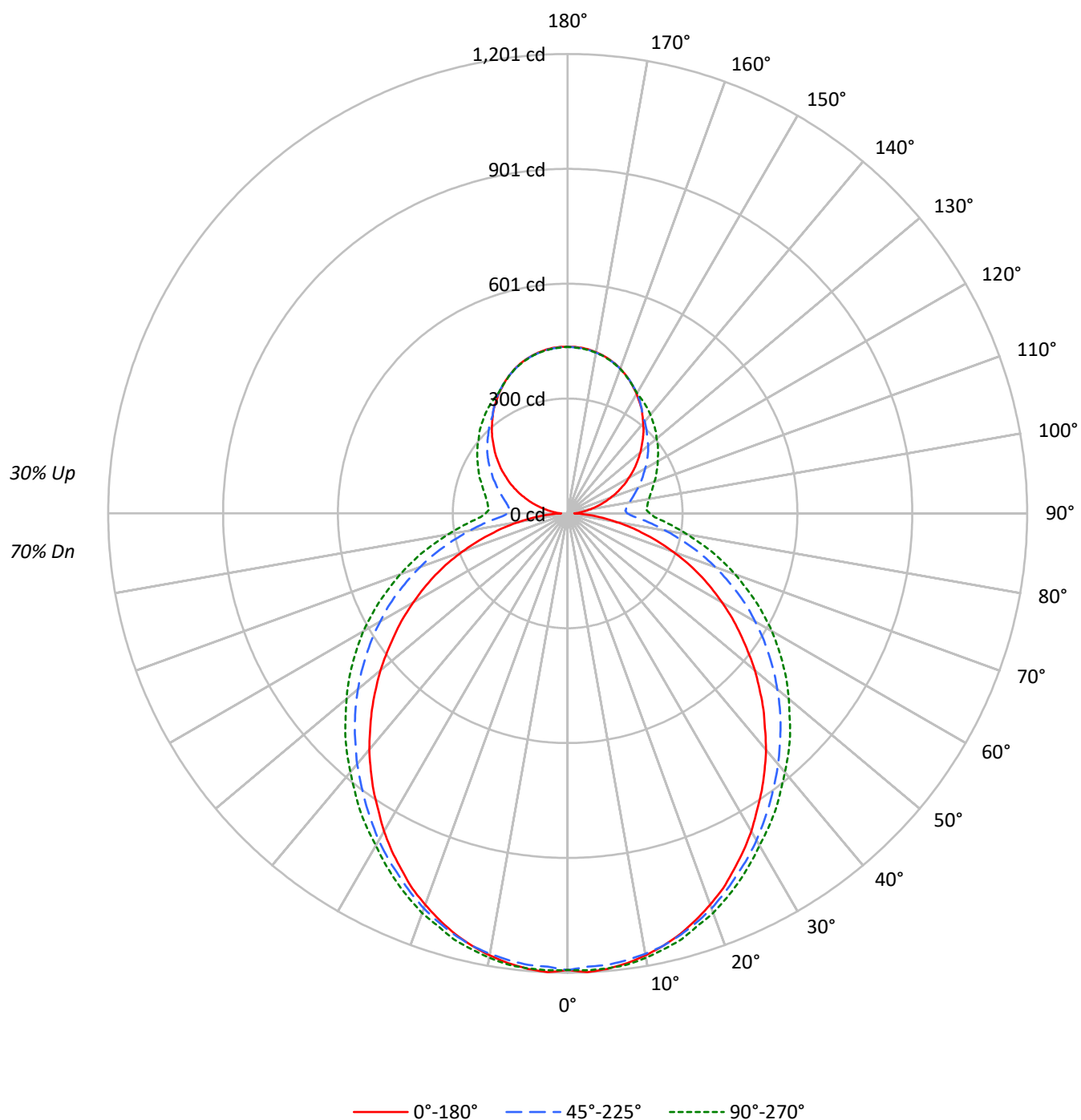
Lumens per Lamp: N/A
Luminaire Lumens: 5220.0 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	50	30	10
RCR																				
0	112	112	112	112	106	106	106	106	95	95	95	84	84	84	75	75	75	75	75	75
1	101	96	91	87	95	91	87	83	81	78	75	72	70	67	64	62	60	60	60	56
2	91	83	76	70	86	78	72	67	70	65	61	62	59	55	55	52	50	50	50	46
3	83	72	64	58	78	69	61	55	61	55	51	55	50	46	49	45	42	42	42	38
4	76	64	55	49	71	61	53	47	54	48	43	49	43	39	43	39	36	36	36	32
5	70	57	48	41	65	54	46	40	49	42	37	44	38	34	39	34	31	31	31	28
6	64	51	42	36	60	48	40	35	44	37	32	39	34	29	35	31	27	27	27	24
7	59	46	38	32	56	44	36	30	40	33	28	36	30	26	32	27	24	24	24	21
8	55	42	34	28	52	40	32	27	36	30	25	33	27	23	29	25	21	21	21	19
9	51	38	30	25	48	37	29	24	33	27	22	30	25	21	27	23	19	19	19	17
10	48	35	28	22	45	34	26	22	31	25	20	28	23	19	25	21	17	17	17	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12853	12853	12853
5°	12888	12476	12466
10°	12768	12138	12046
15°	12598	11764	11599
20°	12358	11349	11120
25°	12064	10880	10624
30°	11761	10457	10127
35°	11423	10011	9720
40°	11100	9605	9292
45°	10740	9211	8939
50°	10386	8821	8555
55°	9993	8421	8203
60°	9609	8011	7840
65°	9213	7575	7418
70°	8620	7085	6983
75°	7867	6528	6532
80°	6993	5962	6019
85°	6119	5505	5650

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10740 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.3	2.2
10°-20°	322.9	6.2
20°-30°	482.9	9.3
30°-40°	576.5	11.0
40°-50°	603.2	11.6
50°-60°	566.1	10.8
60°-70°	472.8	9.1
70°-80°	338.1	6.5
80°-90°	202.1	3.9
90°-100°	154.4	3.0
100°-110°	177.7	3.4
110°-120°	206.4	4.0
120°-130°	225.3	4.3
130°-140°	229.4	4.4
140°-150°	213.2	4.1
150°-160°	176.7	3.4
160°-170°	117.6	2.3
170°-180°	41.2	0.8
0°-30°	919.1	17.6
0°-40°	1495.6	28.7
0°-60°	2664.9	51.1
0°-90°	3677.9	70.5
90°-120°	538.6	10.3
90°-150°	1206.5	23.1
90°-180°	1542.0	29.5
0°-180°	5220.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1194	1194	1194	1194	1194	
5°	1195	1193	1185	1195	1194	113
15°	1138	1142	1141	1154	1152	321
25°	1028	1041	1044	1061	1061	474
35°	884	905	922	942	947	553
45°	723	754	787	812	822	558
55°	552	594	641	676	687	494
65°	381	432	489	528	541	377
75°	207	268	333	376	392	221
85°	64	129	198	242	255	66
90°	17	84	155	201	214	14
95°	34	88	154	196	209	33
105°	87	119	178	215	227	93
115°	152	168	215	246	256	151
125°	217	218	255	281	288	194
135°	278	279	293	315	321	215
145°	336	335	336	346	350	210
155°	383	383	384	385	383	176
165°	418	416	416	418	416	118
175°	434	433	433	435	432	41
180°	435	435	435	435	435	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1194.1	1194.1	1194.1	1194.1	1194.1
2.5°	1200.6	1196.7	1186.3	1196.7	1195.4
5°	1195.4	1192.8	1185.0	1195.4	1194.1
7.5°	1186.3	1186.3	1178.5	1191.5	1190.2
10°	1173.3	1175.9	1169.4	1182.4	1179.8
12.5°	1157.6	1161.5	1157.6	1169.4	1166.8
15°	1138.1	1142.0	1140.7	1153.7	1152.4
17.5°	1114.7	1122.5	1121.2	1132.9	1130.3
20°	1088.7	1096.5	1099.1	1110.8	1112.1
22.5°	1061.4	1069.2	1073.1	1088.7	1087.4
25°	1027.6	1040.6	1044.5	1061.4	1061.4
27.5°	995.1	1009.4	1017.2	1031.5	1032.8
30°	959.9	976.8	987.3	1002.9	1002.9
32.5°	920.9	940.4	954.7	971.6	975.5
35°	884.5	905.3	922.2	941.7	946.9
37.5°	845.5	868.9	888.4	910.5	914.4
40°	806.5	829.9	855.9	878.0	883.2
42.5°	763.5	793.4	820.8	845.5	853.3
45°	723.2	754.4	786.9	811.7	822.1
47.5°	680.3	715.4	751.8	779.1	786.9
50°	638.7	675.1	715.4	745.3	754.4
52.5°	594.4	633.5	679.0	710.2	721.9
55°	551.5	594.4	641.3	676.4	686.8
57.5°	509.9	554.1	604.8	640.0	651.7
60°	465.7	512.5	565.8	602.2	616.5
62.5°	424.0	472.2	529.4	565.8	578.8
65°	381.1	431.8	489.1	528.1	541.1
67.5°	338.2	391.5	448.8	491.7	502.1
70°	292.7	348.6	411.0	452.7	465.7
72.5°	251.0	307.0	372.0	414.9	427.9
75°	206.8	267.9	333.0	375.9	391.5
77.5°	169.1	230.2	295.3	340.8	352.5
80°	128.8	192.5	260.1	304.4	317.4
82.5°	93.7	158.7	227.6	271.9	284.9
85°	63.7	128.8	197.7	241.9	254.9
87.5°	39.0	104.1	170.4	214.6	227.6
90°	17.2	84.4	155.2	200.8	214.5
92.5°	25.9	83.8	151.0	194.9	205.9
95°	34.5	87.6	154.1	195.8	208.8
97.5°	46.2	94.7	157.9	198.6	211.3
100°	58.2	101.9	163.5	202.2	215.9
102.5°	72.3	109.7	170.7	208.1	220.8
105°	87.3	119.2	178.3	214.7	227.1
107.5°	103.8	131.5	186.2	222.4	233.7
110°	118.9	143.0	195.7	231.0	240.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	136.0	154.6	204.0	238.3	250.0
115°	151.8	168.4	214.6	246.2	256.3
117.5°	169.3	180.0	223.5	254.8	264.2
120°	184.0	192.6	233.8	263.3	271.8
122.5°	200.8	204.8	244.4	271.9	280.0
125°	216.6	217.6	254.6	280.6	288.3
127.5°	232.3	233.1	264.9	288.8	296.6
130°	248.0	249.5	274.4	297.8	303.2
132.5°	262.5	265.2	284.0	305.7	313.1
135°	278.5	279.3	293.2	315.3	321.1
137.5°	293.2	293.7	303.8	322.9	328.3
140°	307.3	309.0	313.3	332.4	336.5
142.5°	321.3	321.8	322.4	339.0	343.8
145°	336.1	335.4	336.5	346.5	350.4
147.5°	347.4	348.8	349.8	353.7	356.8
150°	360.7	361.4	362.1	362.1	362.7
152.5°	371.7	372.7	373.0	373.7	372.0
155°	383.3	383.3	383.6	385.0	382.6
157.5°	393.2	392.9	393.2	394.6	392.5
160°	402.5	401.8	401.8	403.5	402.1
162.5°	410.7	409.6	410.0	411.7	409.3
165°	417.5	416.5	416.5	418.5	416.1
167.5°	423.3	421.9	422.3	424.3	422.3
170°	428.1	426.7	426.7	429.1	426.7
172.5°	431.9	430.5	430.5	432.5	430.2
175°	434.3	432.9	432.9	434.9	432.5
177.5°	435.6	434.3	434.3	436.3	433.9
180°	435.3	435.3	435.3	435.3	435.3

(END OF REPORT)