

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: P1011141

Luminaire Tested: S123DIP-B1000D365UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011141
REPORT IS A COMBINATION OF REPORTS P989186 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D365UB40-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

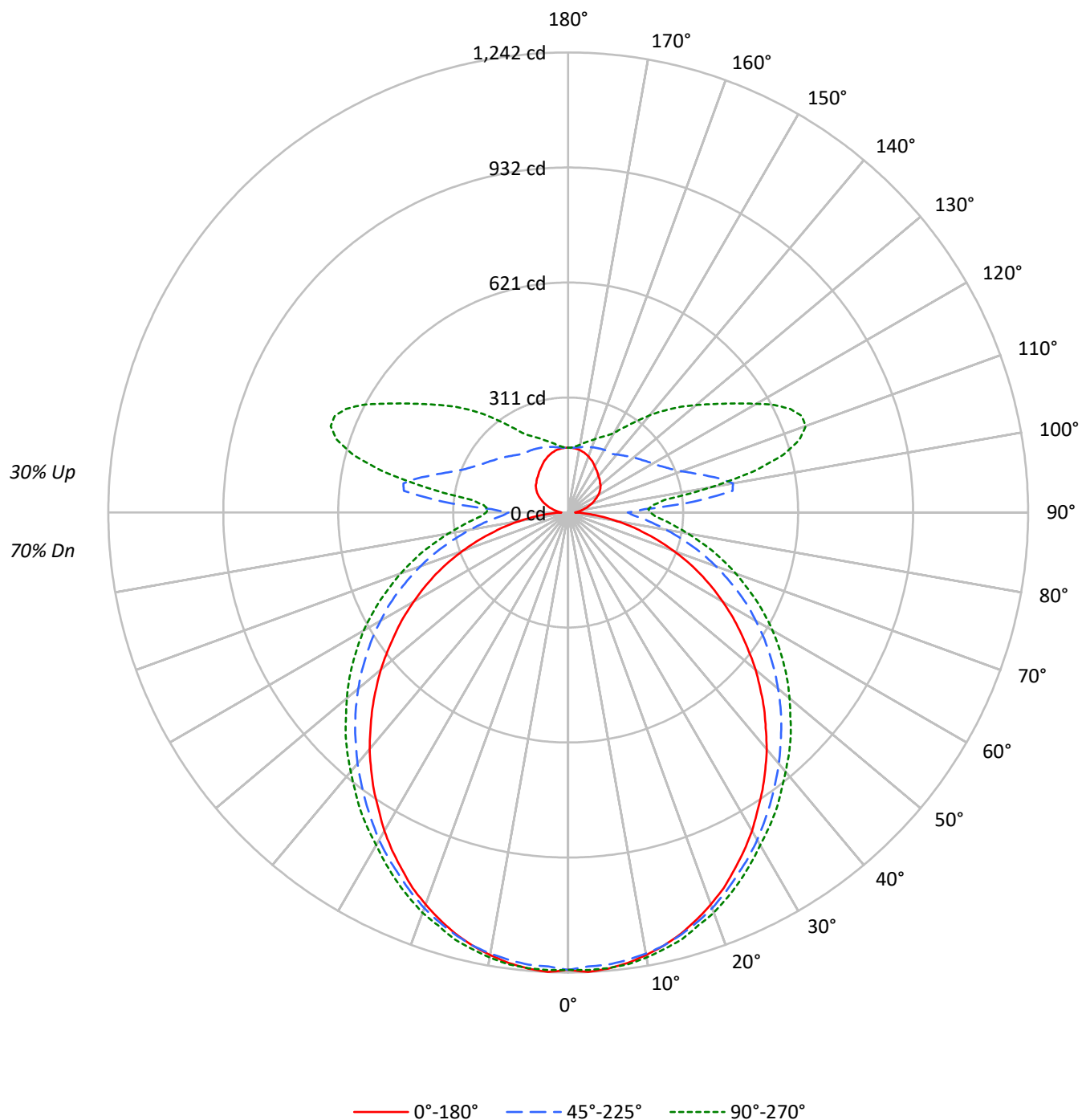
Lumens per Lamp: N/A
Luminaire Lumens: 5468.0 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	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°	13291	13291	13291
5°	13328	12901	12891
10°	13203	12552	12456
15°	13029	12166	11995
20°	12781	11736	11500
25°	12476	11251	10987
30°	12163	10814	10472
35°	11813	10353	10053
40°	11478	9932	9608
45°	11107	9525	9243
50°	10741	9122	8847
55°	10333	8708	8482
60°	9937	8284	8108
65°	9527	7834	7672
70°	8914	7328	7221
75°	8137	6751	6755
80°	7231	6166	6224
85°	6330	5695	5843

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11107 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	2.1
10°-20°	333.9	6.1
20°-30°	499.4	9.1
30°-40°	596.2	10.9
40°-50°	623.8	11.4
50°-60°	585.4	10.7
60°-70°	489.0	8.9
70°-80°	349.6	6.4
80°-90°	209.0	3.8
90°-100°	230.0	4.2
100°-110°	373.5	6.8
110°-120°	334.7	6.1
120°-130°	252.0	4.6
130°-140°	186.5	3.4
140°-150°	130.3	2.4
150°-160°	88.5	1.6
160°-170°	52.0	1.0
170°-180°	16.9	0.3
0°-30°	950.4	17.4
0°-40°	1546.6	28.3
0°-60°	2755.9	50.4
0°-90°	3803.5	69.6
90°-120°	938.3	17.2
90°-150°	1507.1	27.6
90°-180°	1665.0	30.4
0°-180°	5468.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1235	1235	1235	1235	1235	
5°	1236	1234	1225	1236	1235	117
15°	1177	1181	1180	1193	1192	332
25°	1063	1076	1080	1098	1098	490
35°	915	936	954	974	979	572
45°	748	780	814	839	850	577
55°	570	615	663	700	710	511
65°	394	447	506	546	560	390
75°	214	277	344	389	405	228
85°	66	133	204	250	264	68
90°	18	88	161	208	222	13
95°	27	106	343	236	229	24
105°	52	104	385	636	600	54
115°	79	113	289	580	661	79
125°	105	123	246	439	512	94
135°	121	142	216	343	397	93
145°	136	154	198	259	290	85
155°	153	165	191	218	227	70
165°	167	172	183	194	198	47
175°	174	174	176	178	178	17
180°	175	175	175	175	175	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1234.8	1234.8	1234.8	1234.8	1234.8
2.5°	1241.6	1237.5	1226.8	1237.5	1236.2
5°	1236.2	1233.5	1225.4	1236.2	1234.8
7.5°	1226.8	1226.8	1218.7	1232.1	1230.8
10°	1213.3	1216.0	1209.3	1222.7	1220.0
12.5°	1197.2	1201.2	1197.2	1209.3	1206.6
15°	1177.0	1181.0	1179.7	1193.1	1191.8
17.5°	1152.8	1160.8	1159.5	1171.6	1168.9
20°	1125.9	1133.9	1136.6	1148.7	1150.1
22.5°	1097.6	1105.7	1109.7	1125.9	1124.5
25°	1062.7	1076.1	1080.1	1097.6	1097.6
27.5°	1029.0	1043.8	1051.9	1066.7	1068.0
30°	992.7	1010.2	1021.0	1037.1	1037.1
32.5°	952.4	972.5	987.3	1004.8	1008.8
35°	914.7	936.2	953.7	973.9	979.3
37.5°	874.3	898.5	918.7	941.6	945.6
40°	834.0	858.2	885.1	908.0	913.3
42.5°	789.6	820.5	848.8	874.3	882.4
45°	747.9	780.2	813.8	839.4	850.1
47.5°	703.5	739.8	777.5	805.7	813.8
50°	660.5	698.1	739.8	770.8	780.2
52.5°	614.7	655.1	702.2	734.4	746.5
55°	570.3	614.7	663.2	699.5	710.2
57.5°	527.3	573.0	625.5	661.8	673.9
60°	481.6	530.0	585.1	622.8	637.6
62.5°	438.5	488.3	547.5	585.1	598.6
65°	394.1	446.6	505.8	546.1	559.6
67.5°	349.7	404.9	464.1	508.5	519.2
70°	302.7	360.5	425.1	468.1	481.6
72.5°	259.6	317.5	384.7	429.1	442.5
75°	213.9	277.1	344.4	388.7	404.9
77.5°	174.9	238.1	305.3	352.4	364.5
80°	133.2	199.1	269.0	314.8	328.2
82.5°	96.8	164.1	235.4	281.1	294.6
85°	65.9	133.2	204.5	250.2	263.6
87.5°	40.4	107.6	176.2	221.9	235.4
90°	18.2	87.6	160.8	207.6	221.5
92.5°	21.4	95.2	207.0	208.0	216.4
95°	26.8	106.4	342.9	236.0	229.3
97.5°	32.6	106.6	447.6	319.4	263.1
100°	38.3	104.5	451.9	477.8	391.2
102.5°	44.4	103.0	420.9	577.5	511.2
105°	51.8	103.6	385.2	635.7	600.5
107.5°	58.2	105.4	352.7	655.4	655.4
110°	65.4	107.2	325.9	648.4	682.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	73.2	109.4	304.3	618.9	682.2
115°	79.2	113.2	288.8	580.4	661.4
117.5°	86.6	115.3	274.7	539.8	628.6
120°	93.1	117.3	264.1	500.9	586.6
122.5°	99.8	120.4	254.9	468.8	548.2
125°	104.8	123.0	246.0	439.0	512.1
127.5°	109.7	128.0	238.2	413.3	480.0
130°	114.3	133.7	230.5	389.0	450.8
132.5°	116.6	138.8	223.4	365.7	424.6
135°	120.8	142.2	216.3	343.3	396.8
137.5°	124.7	146.1	210.2	320.3	369.3
140°	127.2	149.7	204.5	299.1	342.1
142.5°	131.4	151.6	198.4	277.8	314.9
145°	136.0	154.4	197.7	259.2	289.5
147.5°	139.3	157.4	196.6	243.2	267.9
150°	143.9	159.8	195.2	231.1	248.5
152.5°	148.5	162.5	193.4	224.0	235.2
155°	153.1	165.1	191.3	217.5	226.7
157.5°	156.7	167.4	189.5	211.1	218.5
160°	160.9	169.4	187.4	205.2	210.8
162.5°	164.1	170.8	185.3	199.8	203.7
165°	167.3	172.0	183.2	194.3	197.7
167.5°	169.7	173.1	181.1	189.5	191.7
170°	171.9	173.6	178.9	185.3	186.4
172.5°	173.3	174.2	177.2	181.6	181.4
175°	174.3	174.5	175.8	178.2	177.9
177.5°	175.0	174.7	174.7	176.1	175.4
180°	174.7	174.7	174.7	174.7	174.7

(END OF REPORT)