

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: P1025375

Luminaire Tested: S124DIP-B350D365UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025375
REPORT IS A COMBINATION OF REPORTS P995885 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B350D365UB40-4F0-XX-W2A-D1
Description: Define 4 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

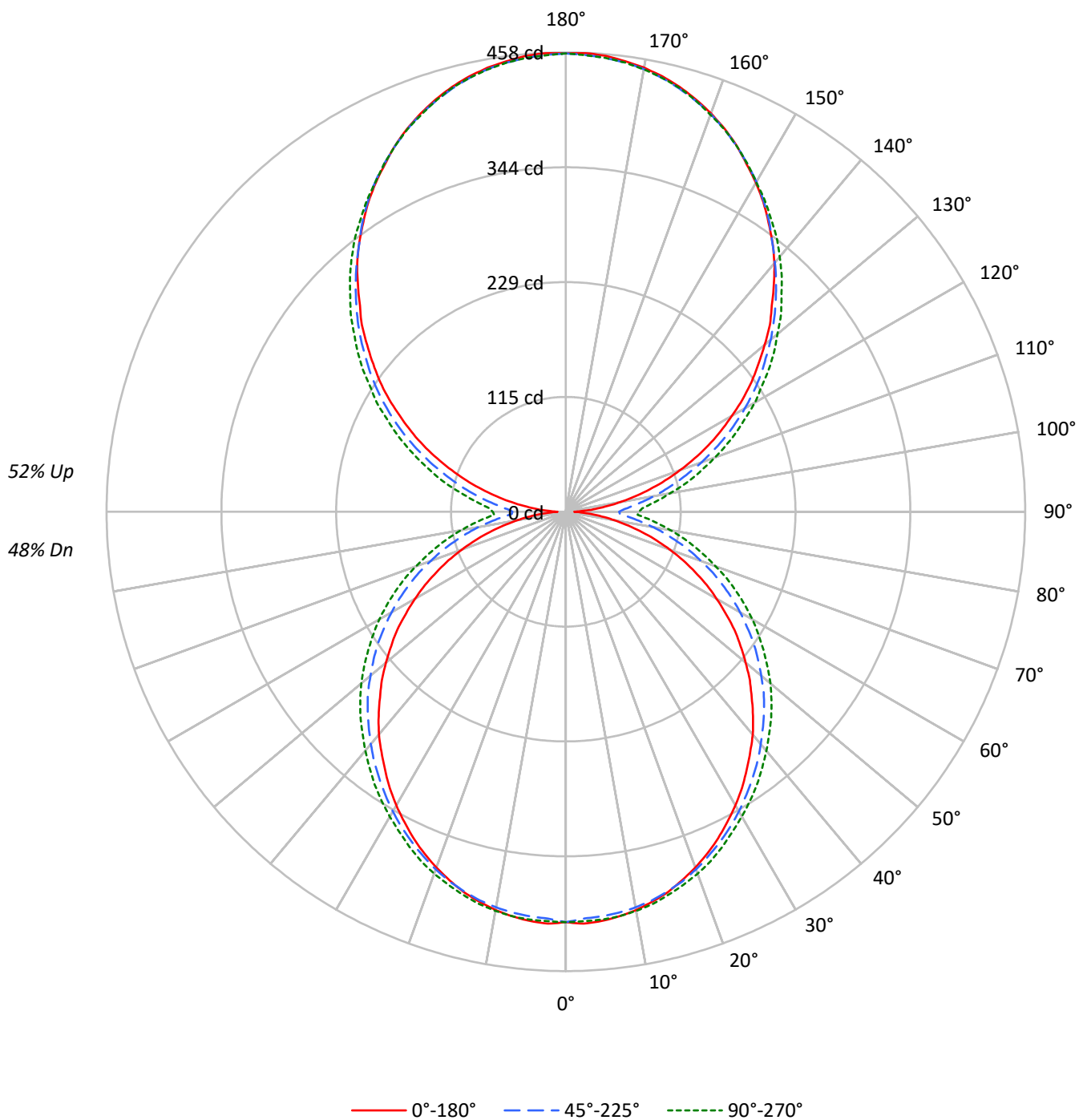
Lumens per Lamp: N/A
Luminaire Lumens: 2664.0 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 22.3
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

TEST NUMBER: P1025375

CATALOG NUMBER: S124DIP-B350D365UB40-4F0-XX-W2A-D1

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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	55	55	55
1	96	92	87	84	89	84	81	77	71	68	66	58	56	55	47	45	44
2	87	80	73	67	80	73	68	63	61	57	54	51	48	45	41	38	36
3	79	70	62	56	73	64	57	52	54	49	45	44	41	37	36	33	31
4	73	61	53	47	66	57	49	44	48	42	38	39	35	32	32	29	26
5	66	54	46	40	61	50	43	37	42	37	32	35	31	27	28	25	22
6	61	49	40	34	56	45	38	32	38	32	28	32	27	24	26	22	20
7	56	44	36	30	52	41	33	28	34	29	24	29	24	21	23	20	17
8	52	40	32	26	48	37	30	25	31	26	22	26	22	19	21	18	15
9	49	36	29	23	45	34	27	22	29	23	19	24	20	17	20	16	14
10	45	33	26	21	42	31	24	20	26	21	17	22	18	15	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3337	3337	3337
5°	3346	3249	3255
10°	3324	3186	3176
15°	3293	3114	3087
20°	3246	3036	3001
25°	3195	2950	2907
30°	3138	2865	2813
35°	3075	2778	2728
40°	3024	2695	2640
45°	2949	2616	2563
50°	2884	2527	2481
55°	2818	2441	2386
60°	2715	2335	2298
65°	2600	2220	2192
70°	2463	2088	2069
75°	2271	1942	1952
80°	2052	1793	1828
85°	1768	1643	1729

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2949 cd/sqm

TEST NUMBER: P1025375

CATALOG NUMBER: S124DIP-B350D365UB40-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.8	1.5
10°-20°	111.1	4.2
20°-30°	168.0	6.3
30°-40°	203.2	7.6
40°-50°	214.8	8.1
50°-60°	202.2	7.6
60°-70°	167.7	6.3
70°-80°	117.7	4.4
80°-90°	67.3	2.5
90°-100°	69.3	2.6
100°-110°	118.5	4.4
110°-120°	171.2	6.4
120°-130°	211.0	7.9
130°-140°	229.3	8.6
140°-150°	221.6	8.3
150°-160°	185.6	7.0
160°-170°	123.5	4.6
170°-180°	43.2	1.6
0°-30°	317.8	11.9
0°-40°	521.0	19.6
0°-60°	938.0	35.2
0°-90°	1290.8	48.5
90°-120°	359.0	13.5
90°-150°	1020.9	38.3
90°-180°	1373.0	51.5
0°-180°	2664.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	409	409	409	409	409	
5°	410	408	405	409	408	39
15°	393	393	392	396	395	111
25°	359	362	363	368	369	165
35°	314	320	324	331	332	197
45°	262	271	280	287	290	203
55°	205	215	229	238	240	183
65°	142	157	172	184	187	141
75°	79	96	115	128	132	84
85°	24	44	64	78	82	25
90°	8	31	53	68	73	7
95°	27	46	67	80	84	28
105°	86	96	114	127	132	92
115°	157	161	175	185	188	155
125°	226	226	237	245	247	202
135°	290	292	296	302	304	225
145°	352	353	353	356	357	220
155°	403	403	403	404	403	185
165°	439	438	437	439	438	124
175°	456	454	454	457	454	43
180°	457	457	457	457	457	

TEST NUMBER: P1025375

CATALOG NUMBER: S124DIP-B350D365UB40-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	409.2	409.2	409.2	409.2	409.2
2.5°	411.0	409.6	406.0	409.2	408.7
5°	409.6	408.2	405.0	408.7	408.2
7.5°	406.9	406.0	403.2	407.3	406.9
10°	403.2	402.7	400.5	404.6	404.1
12.5°	398.2	398.2	396.8	400.5	400.5
15°	392.7	393.1	391.8	395.9	395.4
17.5°	385.3	386.7	386.3	390.4	389.9
20°	377.5	378.9	379.4	384.0	384.0
22.5°	368.8	370.7	371.6	376.2	377.1
25°	359.2	362.0	363.3	368.4	368.8
27.5°	348.7	352.8	354.6	359.2	359.7
30°	338.1	341.8	345.0	350.1	351.0
32.5°	326.7	331.3	334.9	340.9	341.8
35°	314.3	319.8	324.4	330.8	332.2
37.5°	301.9	308.4	313.9	320.3	321.6
40°	290.0	296.0	302.4	309.3	311.1
42.5°	276.3	283.2	290.9	298.7	300.1
45°	262.1	270.8	279.5	287.3	289.6
47.5°	248.8	257.5	267.6	275.4	278.1
50°	234.1	244.2	254.3	263.5	266.2
52.5°	219.5	229.6	241.5	250.6	253.4
55°	205.3	214.9	228.6	237.8	240.5
57.5°	189.2	201.1	214.4	225.4	227.7
60°	173.7	185.6	200.7	211.2	214.9
62.5°	158.5	171.8	186.9	197.5	201.1
65°	142.0	156.7	172.3	183.7	187.4
67.5°	126.5	142.0	158.5	170.0	173.7
70°	110.4	126.0	143.4	155.8	159.0
72.5°	94.8	110.9	129.7	141.6	145.2
75°	78.8	95.8	115.0	127.8	132.0
77.5°	63.7	81.6	101.7	114.5	119.1
80°	49.9	68.3	88.4	102.2	105.8
82.5°	36.2	55.4	75.6	89.8	93.9
85°	24.3	43.5	64.1	77.9	82.5
87.5°	15.1	33.9	54.1	67.4	71.5
90°	8.4	30.6	53.2	68.5	72.9
92.5°	16.1	36.7	58.2	72.0	76.1
95°	27.2	45.5	66.8	80.1	84.3
97.5°	39.4	55.6	77.2	90.5	94.6
100°	54.5	67.9	88.9	102.0	105.2
102.5°	70.7	81.2	101.4	114.4	118.4
105°	86.5	96.0	114.3	126.9	131.6
107.5°	103.8	111.9	128.3	141.2	144.0
110°	121.0	128.2	143.8	153.7	158.4

TEST NUMBER: P1025375

CATALOG NUMBER: S124DIP-B350D365UB40-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	138.9	144.4	158.8	168.9	172.6
115°	156.8	161.0	174.9	184.6	187.5
117.5°	174.1	176.9	190.3	198.9	201.4
120°	191.0	193.9	206.1	213.4	217.8
122.5°	209.1	209.4	221.5	229.5	230.9
125°	226.2	225.8	236.9	244.9	247.0
127.5°	242.1	242.8	251.2	258.8	261.6
130°	258.7	259.3	266.6	274.2	275.4
132.5°	276.0	276.2	281.4	288.5	290.9
135°	290.4	292.5	295.7	302.4	304.0
137.5°	307.0	307.6	310.2	316.0	318.6
140°	323.6	323.9	324.3	329.9	331.9
142.5°	338.4	339.1	338.2	343.2	345.1
145°	352.2	353.1	353.4	355.8	356.6
147.5°	366.3	367.6	367.2	367.4	368.8
150°	379.0	380.0	380.0	380.0	379.6
152.5°	390.6	391.3	391.6	392.7	391.6
155°	402.9	402.9	402.6	404.0	402.6
157.5°	413.5	412.8	412.8	413.9	412.8
160°	422.7	422.4	422.0	423.1	421.3
162.5°	431.2	430.1	429.8	431.9	430.1
165°	438.6	437.6	436.9	439.0	437.6
167.5°	444.6	443.2	443.2	445.3	443.2
170°	449.6	447.8	448.2	450.3	447.8
172.5°	453.1	451.7	451.7	454.2	451.7
175°	456.3	454.5	454.2	456.7	454.2
177.5°	457.7	455.9	455.9	458.4	455.6
180°	457.0	457.0	457.0	457.0	457.0

(END OF REPORT)