

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: P1025374

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025374
REPORT IS A COMBINATION OF REPORTS P995884 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-D
Description: Define 4 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

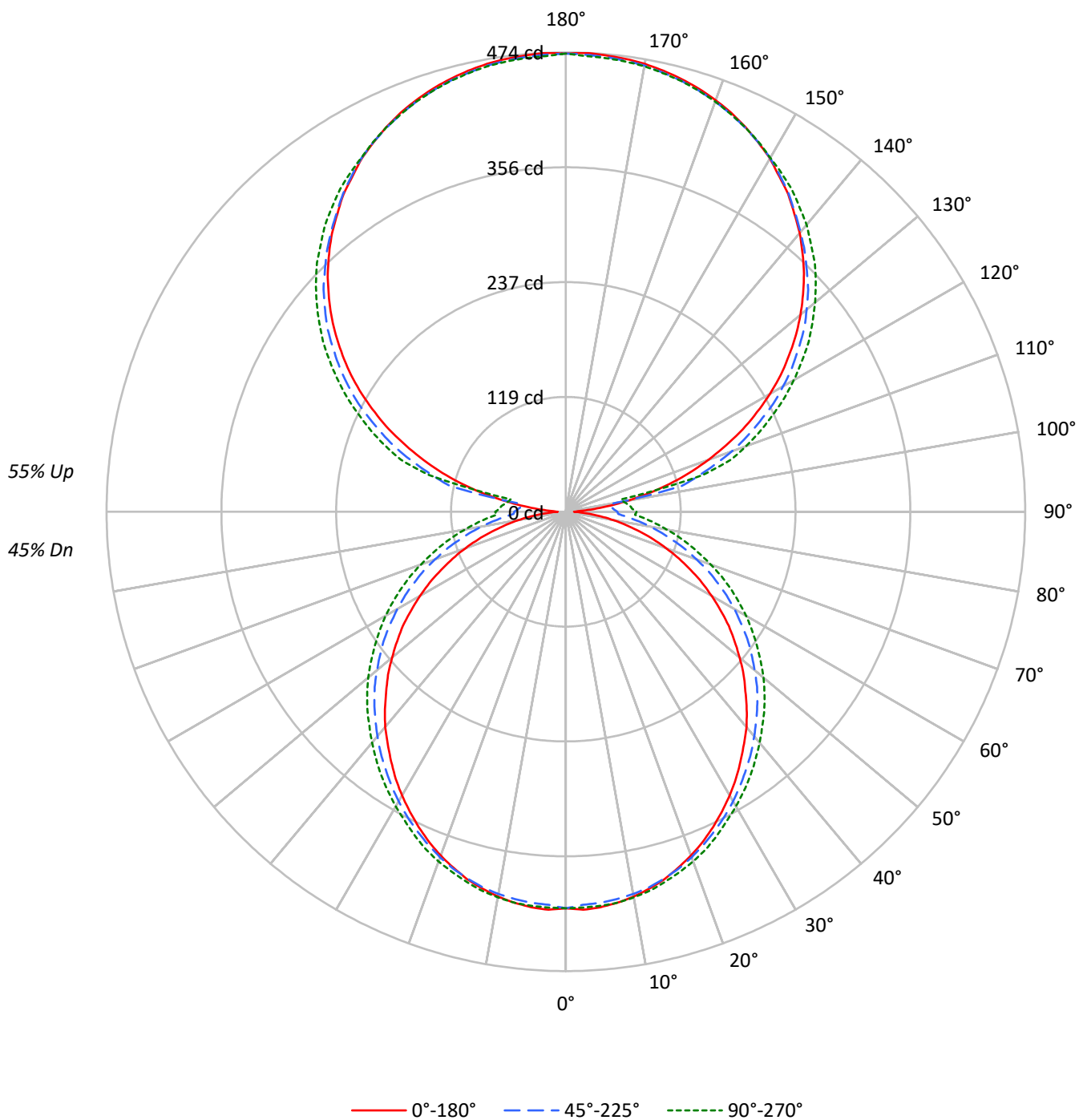
Lumens per Lamp: N/A
Luminaire Lumens: 2859.0 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52
1	96	91	87	83	88	84	80	77	69	67	64	56	54	53	44	43	42
2	87	79	73	67	79	72	67	62	60	56	52	49	46	43	38	36	34
3	79	69	61	55	72	63	57	51	53	48	44	43	39	36	34	31	29
4	72	61	53	47	66	56	49	43	47	41	37	38	34	31	30	27	25
5	66	54	46	40	60	50	42	37	42	36	32	34	30	26	27	24	21
6	61	48	40	34	55	45	37	32	37	32	27	31	26	23	24	21	19
7	56	44	35	30	51	40	33	28	34	28	24	28	23	20	22	19	16
8	52	39	32	26	47	36	29	24	31	25	21	25	21	18	20	17	15
9	48	36	28	23	44	33	26	22	28	23	19	23	19	16	19	15	13
10	45	33	26	21	41	30	24	19	26	21	17	21	17	14	17	14	12

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.8	1.4
10°-20°	111.1	3.9
20°-30°	168.0	5.9
30°-40°	203.2	7.1
40°-50°	214.8	7.5
50°-60°	202.2	7.1
60°-70°	167.7	5.9
70°-80°	117.7	4.1
80°-90°	67.3	2.4
90°-100°	55.2	1.9
100°-110°	132.6	4.6
110°-120°	217.0	7.6
120°-130°	261.6	9.2
130°-140°	272.8	9.5
140°-150°	251.6	8.8
150°-160°	202.1	7.1
160°-170°	130.3	4.6
170°-180°	44.9	1.6
0°-30°	317.8	11.1
0°-40°	521.0	18.2
0°-60°	938.0	32.8
0°-90°	1290.8	45.1
90°-120°	404.8	14.2
90°-150°	1190.8	41.7
90°-180°	1568.0	54.8
0°-180°	2859.0	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	6
95°	25	28	48	62	67	29
105°	110	122	140	155	146	116
115°	201	207	221	232	235	198
125°	281	282	293	303	306	251
135°	348	347	352	360	363	268
145°	400	401	401	404	406	250
155°	438	438	437	439	438	202
165°	462	460	460	463	460	131
175°	473	471	471	474	470	45
180°	473	473	473	473	473	

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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	30.7	53.2	68.5	72.9
92.5°	12.2	27.5	50.0	64.9	68.6
95°	25.4	28.5	47.7	62.1	66.7
97.5°	42.6	63.7	45.4	59.0	63.5
100°	63.0	81.4	50.4	56.7	60.3
102.5°	86.3	100.7	122.3	54.7	58.4
105°	110.5	121.9	140.5	155.2	146.2
107.5°	133.5	142.4	160.9	174.1	178.7
110°	156.5	163.9	182.1	193.4	198.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	178.6	186.2	202.0	211.8	216.9
115°	201.4	206.7	220.9	231.8	235.0
117.5°	222.3	226.5	241.3	250.6	254.2
120°	243.1	245.9	258.9	268.7	271.7
122.5°	262.9	263.6	276.7	286.2	288.7
125°	281.2	282.2	292.9	302.6	305.8
127.5°	299.2	299.2	310.0	318.0	320.8
130°	316.1	316.0	324.3	333.0	335.7
132.5°	332.0	332.3	339.2	347.3	349.8
135°	347.5	347.1	351.7	359.8	363.2
137.5°	361.6	361.2	364.8	372.4	374.3
140°	375.4	375.7	376.8	383.9	386.5
142.5°	387.4	388.8	388.6	394.3	396.2
145°	400.1	400.7	400.7	403.7	406.3
147.5°	410.0	411.6	411.3	412.1	414.3
150°	421.0	421.9	421.5	421.5	421.9
152.5°	429.7	430.7	430.0	430.7	430.4
155°	438.1	438.5	437.4	438.9	437.8
157.5°	445.6	445.6	444.2	445.9	444.2
160°	451.9	450.9	450.5	452.6	450.5
162.5°	457.6	456.2	455.8	458.0	455.5
165°	462.2	460.4	460.4	463.3	460.1
167.5°	466.1	464.3	464.0	467.1	463.6
170°	469.3	467.1	467.5	470.3	466.8
172.5°	471.4	469.3	469.6	472.5	468.6
175°	472.8	470.7	471.0	474.2	470.0
177.5°	473.9	471.4	472.1	474.9	470.7
180°	472.8	472.8	472.8	472.8	472.8

(END OF REPORT)