

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: P1025366

Luminaire Tested: S124DIP-B350D365UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025366
REPORT IS A COMBINATION OF REPORTS P995876 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B350D365UB35-4F0-XX-W2A-D1
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

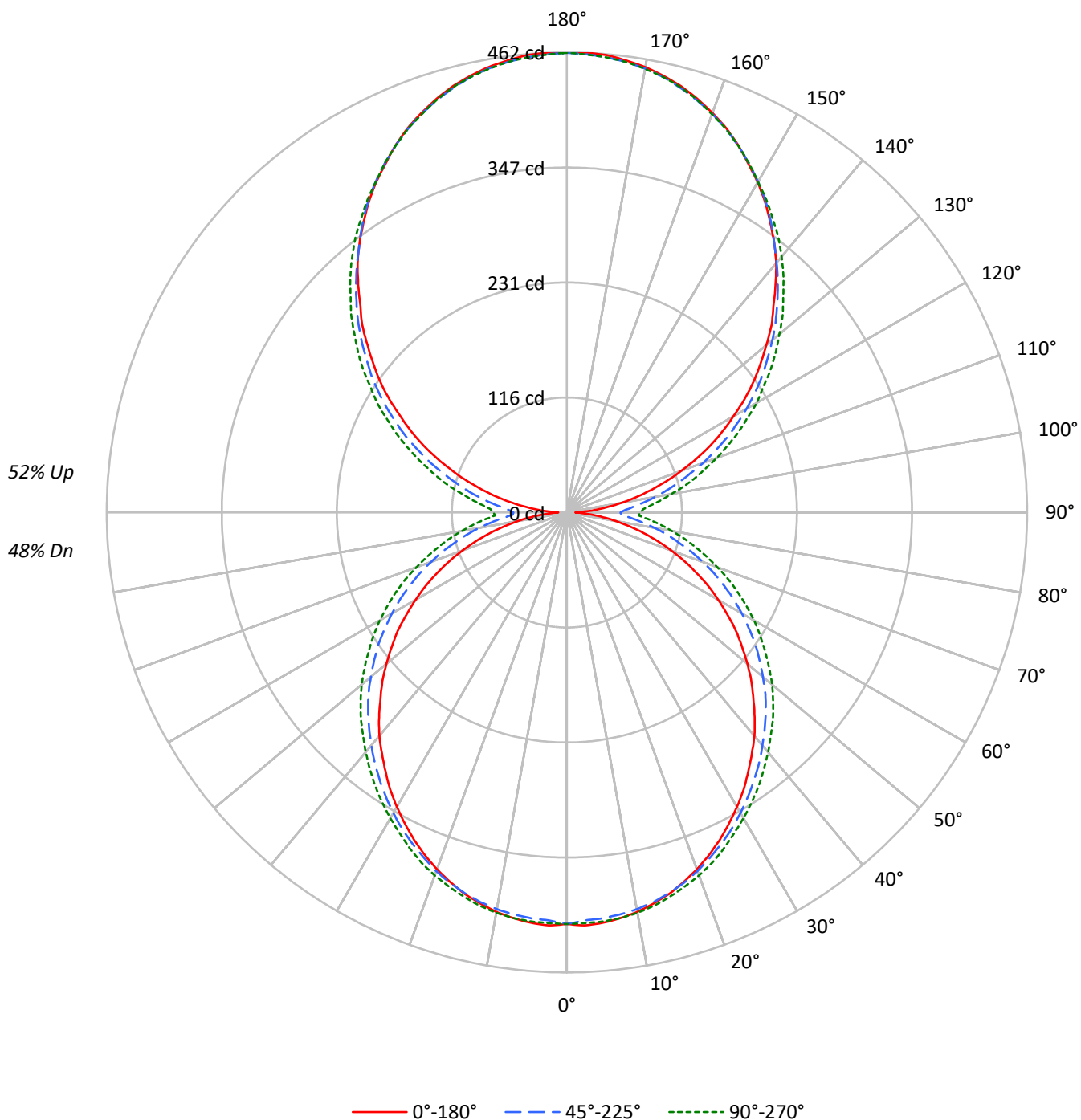
Lumens per Lamp: N/A
Luminaire Lumens: 2691.0 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	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°	3370	3370	3370
5°	3379	3282	3288
10°	3358	3218	3209
15°	3326	3145	3119
20°	3279	3066	3031
25°	3227	2980	2937
30°	3170	2894	2841
35°	3106	2806	2755
40°	3054	2721	2667
45°	2978	2643	2589
50°	2913	2552	2506
55°	2846	2466	2411
60°	2742	2358	2321
65°	2628	2242	2214
70°	2488	2110	2089
75°	2294	1962	1971
80°	2073	1811	1847
85°	1783	1660	1746

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2978 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.2	1.5
10°-20°	112.2	4.2
20°-30°	169.6	6.3
30°-40°	205.2	7.6
40°-50°	217.0	8.1
50°-60°	204.2	7.6
60°-70°	169.4	6.3
70°-80°	118.9	4.4
80°-90°	68.0	2.5
90°-100°	70.0	2.6
100°-110°	119.7	4.4
110°-120°	173.0	6.4
120°-130°	213.1	7.9
130°-140°	231.7	8.6
140°-150°	223.9	8.3
150°-160°	187.5	7.0
160°-170°	124.8	4.6
170°-180°	43.7	1.6
0°-30°	321.0	11.9
0°-40°	526.2	19.6
0°-60°	947.4	35.2
0°-90°	1303.7	48.4
90°-120°	362.6	13.5
90°-150°	1031.3	38.3
90°-180°	1387.0	51.5
0°-180°	2691.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	413	413	413	413	413	
5°	414	412	409	413	412	39
15°	397	397	396	400	399	112
25°	363	366	367	372	372	167
35°	318	323	328	334	336	199
45°	265	274	282	290	292	205
55°	207	217	231	240	243	185
65°	144	158	174	186	189	142
75°	80	97	116	129	133	85
85°	24	44	65	79	83	26
90°	8	31	54	69	74	7
95°	27	46	67	81	85	28
105°	87	97	116	128	133	93
115°	158	163	177	186	190	156
125°	229	228	239	248	250	204
135°	293	296	299	306	307	227
145°	356	357	357	360	360	223
155°	407	407	407	408	407	187
165°	443	442	441	444	442	125
175°	461	459	459	461	459	44
180°	462	462	462	462	462	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	413.3	413.3	413.3	413.3	413.3
2.5°	415.1	413.7	410.0	413.3	412.8
5°	413.7	412.3	409.1	412.8	412.3
7.5°	411.0	410.0	407.3	411.4	411.0
10°	407.3	406.8	404.5	408.6	408.2
12.5°	402.2	402.2	400.8	404.5	404.5
15°	396.6	397.1	395.7	399.8	399.4
17.5°	389.2	390.6	390.1	394.3	393.8
20°	381.3	382.7	383.2	387.8	387.8
22.5°	372.5	374.4	375.3	379.9	380.9
25°	362.8	365.6	367.0	372.1	372.5
27.5°	352.2	356.3	358.2	362.8	363.3
30°	341.5	345.2	348.5	353.6	354.5
32.5°	330.0	334.6	338.3	344.3	345.2
35°	317.5	323.0	327.7	334.1	335.5
37.5°	305.0	311.5	317.0	323.5	324.9
40°	292.9	299.0	305.4	312.4	314.2
42.5°	279.1	286.0	293.9	301.7	303.1
45°	264.7	273.5	282.3	290.2	292.5
47.5°	251.3	260.1	270.3	278.1	280.9
50°	236.5	246.7	256.8	266.1	268.9
52.5°	221.7	231.9	243.9	253.1	255.9
55°	207.3	217.0	230.9	240.2	243.0
57.5°	191.1	203.2	216.6	227.7	230.0
60°	175.4	187.4	202.7	213.3	217.0
62.5°	160.1	173.5	188.8	199.5	203.2
65°	143.5	158.3	174.0	185.6	189.3
67.5°	127.7	143.5	160.1	171.7	175.4
70°	111.5	127.3	144.9	157.3	160.6
72.5°	95.8	112.0	131.0	143.0	146.7
75°	79.6	96.7	116.2	129.1	133.3
77.5°	64.3	82.4	102.7	115.7	120.3
80°	50.4	69.0	89.3	103.2	106.9
82.5°	36.6	56.0	76.4	90.7	94.9
85°	24.5	44.0	64.8	78.7	83.3
87.5°	15.3	34.2	54.6	68.0	72.2
90°	8.5	30.9	53.7	69.2	73.6
92.5°	16.2	37.0	58.7	72.8	76.8
95°	27.4	45.9	67.4	81.0	85.1
97.5°	39.9	56.1	77.9	91.4	95.5
100°	55.1	68.5	89.8	103.0	106.2
102.5°	71.5	82.1	102.5	115.6	119.7
105°	87.4	97.0	115.5	128.2	132.9
107.5°	104.9	113.0	129.6	142.6	145.5
110°	122.2	129.5	145.3	155.2	160.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	140.3	145.9	160.5	170.6	174.3
115°	158.5	162.6	176.8	186.5	189.5
117.5°	176.0	178.8	192.2	200.9	203.6
120°	193.0	195.8	208.1	215.6	220.1
122.5°	211.2	211.5	223.7	231.9	233.3
125°	228.6	228.1	239.4	247.5	249.5
127.5°	244.7	245.3	253.8	261.4	264.3
130°	261.3	261.9	269.3	277.0	278.3
132.5°	278.8	279.1	284.3	291.4	293.8
135°	293.3	295.5	298.8	305.5	307.1
137.5°	310.1	310.8	313.3	319.2	321.9
140°	326.9	327.2	327.6	333.3	335.3
142.5°	341.9	342.6	341.7	346.8	348.6
145°	355.8	356.7	357.1	359.5	360.2
147.5°	370.1	371.3	371.0	371.1	372.6
150°	382.9	383.8	383.8	383.8	383.5
152.5°	394.6	395.3	395.6	396.7	395.6
155°	407.1	407.1	406.7	408.1	406.7
157.5°	417.8	417.1	417.1	418.1	417.1
160°	427.1	426.7	426.3	427.4	425.6
162.5°	435.6	434.6	434.2	436.3	434.6
165°	443.1	442.0	441.3	443.5	442.0
167.5°	449.2	447.8	447.8	449.9	447.8
170°	454.2	452.4	452.8	454.9	452.4
172.5°	457.8	456.3	456.3	458.8	456.3
175°	461.0	459.2	458.8	461.3	458.8
177.5°	462.4	460.6	460.6	463.1	460.3
180°	461.7	461.7	461.7	461.7	461.7

(END OF REPORT)