

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: P1001238

Luminaire Tested: SA4XXDIP-B350D365UB2750-4F0-XX-W2A-D_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001238
REPORT IS A COMBINATION OF REPORTS P995855 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B350D365UB2750-4F0-XX-W2A-D_3500K
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

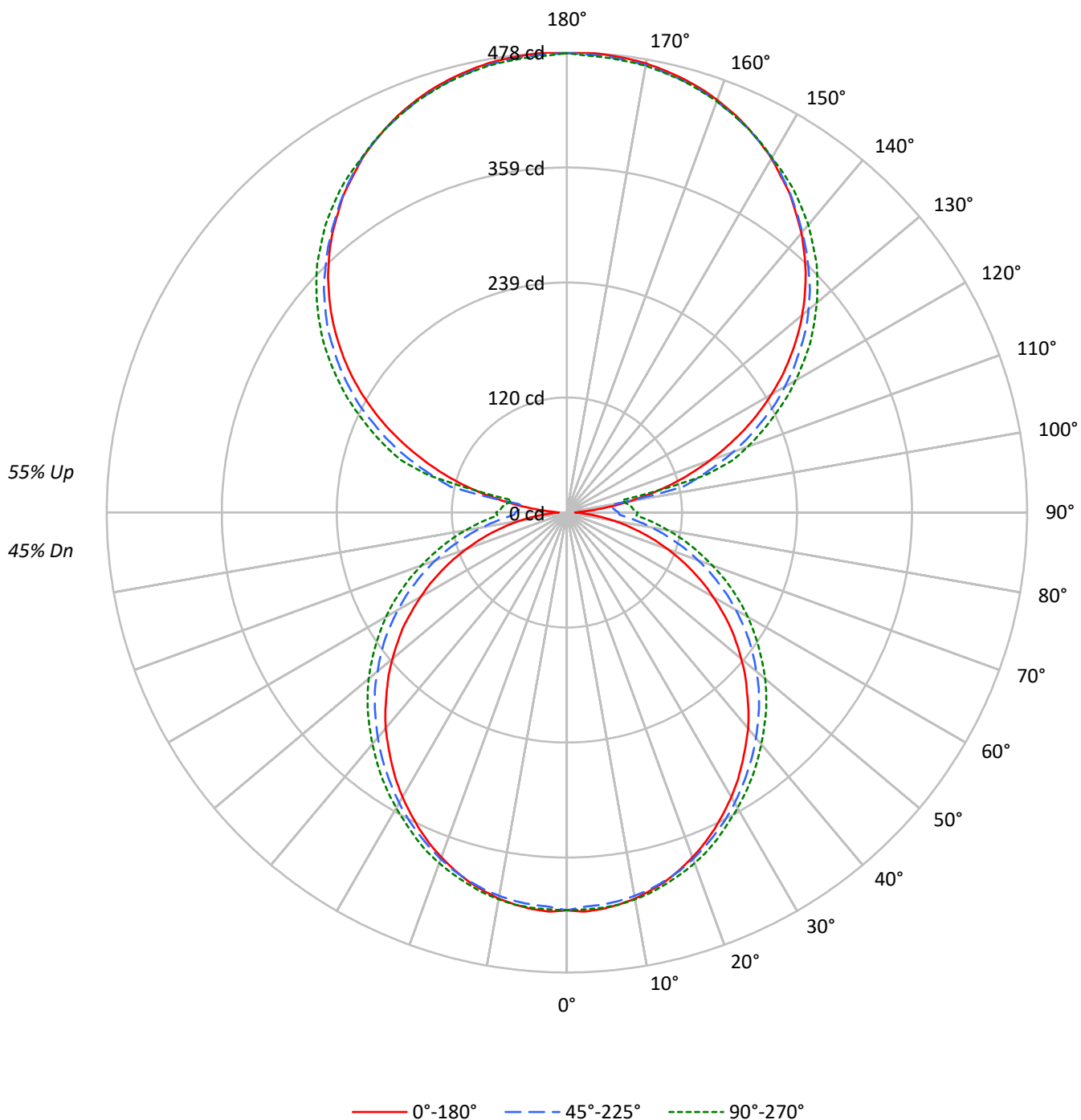
Lumens per Lamp: N/A
Luminaire Lumens: 2887.0 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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	50	30	10
RCR																				
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52			45
1	96	91	87	83	88	84	80	77	69	67	64	56	54	53	44	43	42			36
2	87	79	73	67	79	72	67	62	60	56	52	49	46	43	38	36	34			30
3	79	69	61	55	72	63	57	51	53	48	44	43	39	36	34	31	29			25
4	72	61	53	47	66	56	49	43	47	41	37	38	34	31	30	27	25			21
5	66	54	46	40	60	50	42	37	42	36	32	34	30	26	27	24	21			18
6	61	48	40	34	55	45	37	32	37	32	27	31	26	23	24	21	19			16
7	56	44	35	30	51	40	33	28	34	28	24	28	23	20	22	19	16			14
8	52	39	32	26	47	36	29	25	31	25	21	25	21	18	20	17	15			12
9	48	36	28	23	44	33	26	22	28	23	19	23	19	16	19	15	13			11
10	45	33	26	21	41	30	24	19	26	21	17	21	17	14	17	14	12			10

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	1.4
10°-20°	112.2	3.9
20°-30°	169.6	5.9
30°-40°	205.2	7.1
40°-50°	217.0	7.5
50°-60°	204.2	7.1
60°-70°	169.4	5.9
70°-80°	118.9	4.1
80°-90°	68.0	2.4
90°-100°	55.7	1.9
100°-110°	133.9	4.6
110°-120°	219.1	7.6
120°-130°	264.1	9.1
130°-140°	275.4	9.5
140°-150°	254.0	8.8
150°-160°	204.0	7.1
160°-170°	131.6	4.6
170°-180°	45.4	1.6
0°-30°	321.0	11.1
0°-40°	526.2	18.2
0°-60°	947.4	32.8
0°-90°	1303.7	45.2
90°-120°	408.7	14.2
90°-150°	1202.3	41.6
90°-180°	1583.0	54.8
0°-180°	2887.0	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	6
95°	26	29	48	63	67	29
105°	112	123	142	157	148	117
115°	203	209	223	234	237	200
125°	284	285	296	306	309	254
135°	351	350	355	363	367	270
145°	404	404	404	408	410	252
155°	442	443	442	443	442	204
165°	467	465	465	468	464	132
175°	477	475	476	479	474	45
180°	477	477	477	477	477	

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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°	12.3	27.7	50.5	65.6	69.3
95°	25.6	28.8	48.2	62.8	67.3
97.5°	43.1	64.3	45.8	59.6	64.1
100°	63.7	82.1	50.9	57.3	60.9
102.5°	87.2	101.7	123.6	55.3	59.0
105°	111.7	123.0	141.9	156.7	147.5
107.5°	134.9	143.7	162.4	175.8	180.4
110°	157.9	165.5	183.8	195.2	199.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	180.3	188.0	204.0	213.8	218.9
115°	203.4	208.6	223.2	234.0	237.3
117.5°	224.5	228.7	243.6	253.0	256.7
120°	245.4	248.3	261.3	271.3	274.3
122.5°	265.4	266.1	279.3	289.0	291.5
125°	283.9	284.9	295.8	305.6	308.7
127.5°	302.1	302.0	313.0	321.0	323.9
130°	319.1	319.0	327.5	336.2	338.9
132.5°	335.2	335.4	342.4	350.6	353.0
135°	350.8	350.4	355.1	363.3	366.7
137.5°	365.1	364.7	368.2	376.0	377.9
140°	379.0	379.3	380.4	387.5	390.2
142.5°	391.1	392.5	392.4	398.2	400.0
145°	403.9	404.5	404.5	407.7	410.2
147.5°	413.9	415.6	415.2	416.1	418.2
150°	425.0	425.9	425.6	425.6	425.9
152.5°	433.8	434.8	434.1	434.8	434.5
155°	442.3	442.7	441.6	443.1	442.0
157.5°	449.8	449.8	448.4	450.2	448.4
160°	456.3	455.2	454.8	457.0	454.8
162.5°	462.0	460.5	460.2	462.3	459.8
165°	466.6	464.8	464.8	467.7	464.5
167.5°	470.5	468.8	468.4	471.6	468.0
170°	473.8	471.6	472.0	474.8	471.3
172.5°	475.9	473.8	474.1	477.0	473.0
175°	477.3	475.2	475.5	478.8	474.5
177.5°	478.4	475.9	476.6	479.5	475.2
180°	477.3	477.3	477.3	477.3	477.3

(END OF REPORT)