

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: P1001269

Luminaire Tested: SA4XXDIP-B350D365UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001269
REPORT IS A COMBINATION OF REPORTS P995888 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B350D365UB40-4F0-XX-W2A-F1
Description: Define 4 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

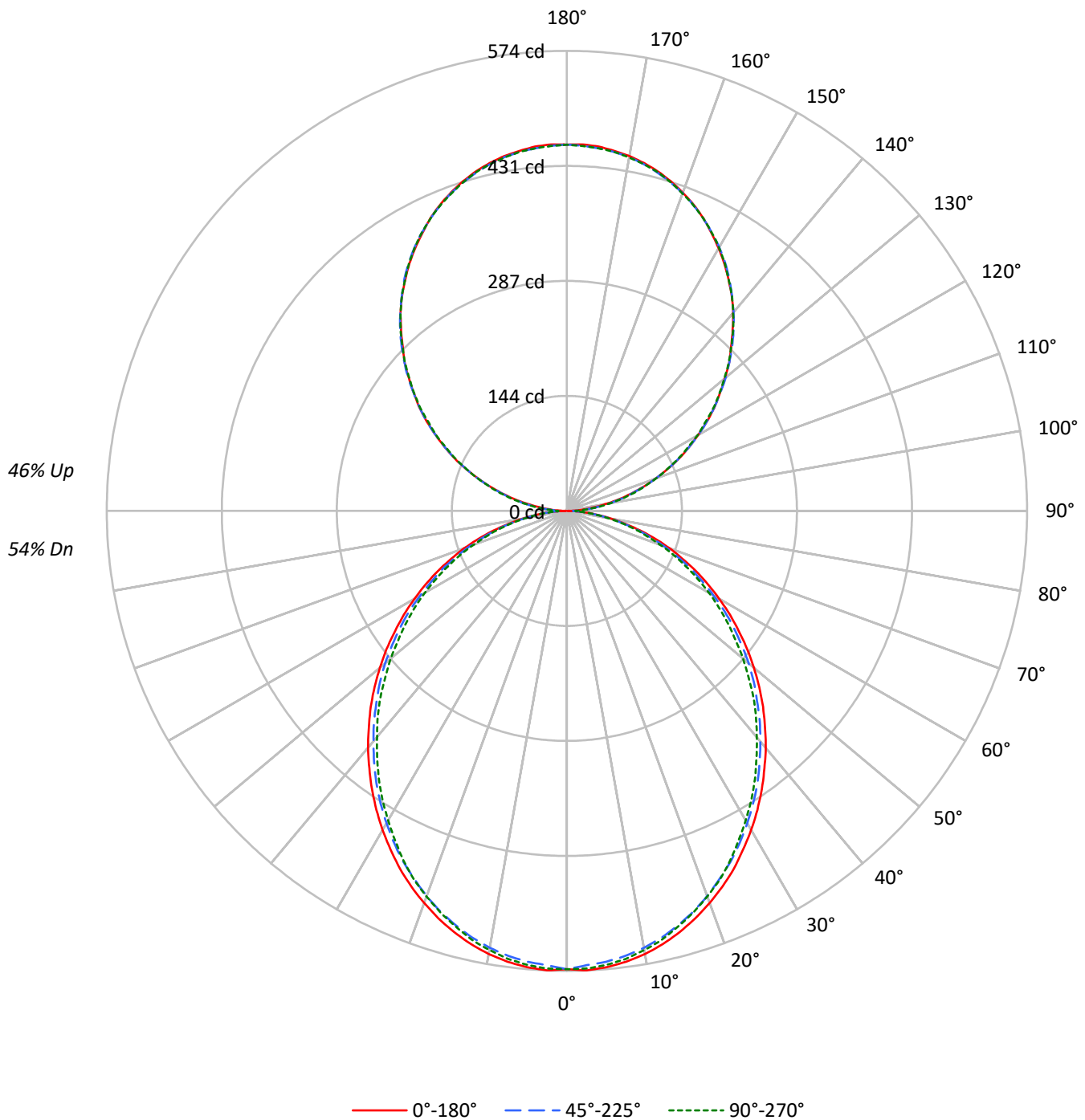
Lumens per Lamp: N/A
Luminaire Lumens: 2737.0 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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
RCR																	
0	108	108	108	108	100	100	100	100	85	85	85		72	72	72		59
1	99	94	90	87	91	87	84	81	75	72	70		63	61	60		53
2	90	82	76	71	83	76	71	66	66	62	58		56	53	50		46
3	82	72	65	59	76	67	61	56	58	53	49		49	45	42		41
4	75	64	56	50	69	60	53	47	51	46	42		44	40	36		37
5	69	57	49	43	63	53	46	40	46	40	36		39	35	31		33
6	63	51	43	37	59	48	41	35	41	36	31		36	31	28		30
7	59	46	38	33	54	43	36	31	38	32	28		32	28	24		27
8	54	42	34	29	50	39	32	27	34	29	25		30	25	22		25
9	51	38	31	26	47	36	29	24	31	26	22		27	23	20		23
10	47	35	28	23	44	33	26	22	29	24	20		25	21	18		22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4664	4664	4664
5°	4668	4530	4535
10°	4628	4404	4373
15°	4562	4255	4191
20°	4477	4092	4001
25°	4382	3922	3797
30°	4267	3737	3573
35°	4147	3548	3357
40°	4023	3344	3127
45°	3893	3141	2912
50°	3749	2943	2674
55°	3592	2711	2437
60°	3431	2458	2191
65°	3249	2197	1913
70°	3036	1881	1616
75°	2720	1517	1294
80°	2320	1097	910
85°	1797	610	490

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3893 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	2.0
10°-20°	151.9	5.5
20°-30°	223.5	8.2
30°-40°	259.8	9.5
40°-50°	259.8	9.5
50°-60°	227.2	8.3
60°-70°	168.7	6.2
70°-80°	95.7	3.5
80°-90°	28.4	1.0
90°-100°	29.8	1.1
100°-110°	89.2	3.3
110°-120°	151.6	5.5
120°-130°	199.9	7.3
130°-140°	224.5	8.2
140°-150°	220.7	8.1
150°-160°	185.6	6.8
160°-170°	123.5	4.5
170°-180°	43.2	1.6
0°-30°	429.3	15.7
0°-40°	689.1	25.2
0°-60°	1176.2	43.0
0°-90°	1469.0	53.7
90°-120°	270.6	9.9
90°-150°	915.7	33.5
90°-180°	1268.0	46.3
0°-180°	2737.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	572	572	572	572	572	
5°	572	570	565	570	569	54
15°	544	542	535	538	537	153
25°	493	490	483	484	482	227
35°	424	421	414	411	409	265
45°	346	343	336	330	329	267
55°	262	260	254	248	246	234
65°	177	175	170	166	164	176
75°	94	92	90	88	88	100
85°	25	25	24	24	23	27
90°	1	5	8	10	11	3
95°	21	24	27	28	28	23
105°	82	83	84	85	86	87
115°	154	154	153	153	153	152
125°	224	224	224	223	223	200
135°	290	292	292	291	290	224
145°	352	353	353	353	352	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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	571.9	571.9	571.9	571.9	571.9
2.5°	573.8	572.4	567.4	571.9	571.5
5°	571.5	569.7	564.6	569.7	568.7
7.5°	567.4	565.5	560.0	564.2	563.7
10°	561.4	559.6	553.6	557.3	556.4
12.5°	553.6	551.8	545.4	549.5	548.1
15°	544.0	542.2	535.3	538.0	536.7
17.5°	533.0	530.7	524.3	526.1	525.2
20°	520.6	518.3	511.4	512.8	511.9
22.5°	507.3	504.1	497.2	500.0	498.2
25°	492.7	489.5	483.0	483.5	481.7
27.5°	476.2	473.0	467.0	466.1	463.8
30°	459.7	456.0	450.0	448.2	445.9
32.5°	442.2	439.0	432.6	430.3	428.0
35°	423.9	420.7	414.3	411.1	408.8
37.5°	404.7	401.9	395.0	391.8	388.6
40°	385.9	382.2	375.3	370.8	368.5
42.5°	365.7	363.9	356.1	350.6	349.2
45°	346.0	342.8	335.5	330.4	329.0
47.5°	325.4	323.1	316.2	310.7	307.1
50°	304.3	302.5	296.1	289.6	286.9
52.5°	283.7	281.4	274.5	269.0	265.3
55°	261.7	260.3	253.9	248.4	245.6
57.5°	241.1	239.7	233.3	227.8	225.0
60°	219.5	217.2	211.3	207.1	204.9
62.5°	198.4	196.6	190.2	186.5	184.2
65°	177.4	175.1	170.5	165.9	163.6
67.5°	155.8	154.0	149.4	144.8	144.4
70°	136.1	132.9	129.2	125.6	124.2
72.5°	115.0	111.8	109.1	106.3	104.9
75°	94.4	92.1	89.8	88.0	87.5
77.5°	74.2	73.3	71.0	70.6	69.2
80°	56.4	55.0	54.1	53.2	52.7
82.5°	39.0	38.5	38.5	38.0	37.6
85°	24.7	24.7	23.8	23.8	23.4
87.5°	11.9	11.5	11.0	11.0	11.0
90°	1.1	4.9	7.8	9.9	10.6
92.5°	9.2	13.8	15.6	16.6	17.0
95°	21.2	24.4	26.9	27.9	27.9
97.5°	33.9	36.8	39.6	41.0	41.0
100°	49.5	50.9	54.1	54.8	54.8
102.5°	65.7	66.1	68.9	70.0	70.3
105°	82.4	82.7	84.1	85.2	86.2
107.5°	99.7	100.0	100.4	101.8	101.4
110°	117.3	118.1	117.7	117.0	118.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	135.7	135.7	135.0	135.0	135.0
115°	154.1	154.1	153.4	153.0	152.7
117.5°	171.4	171.4	171.1	170.0	168.9
120°	188.7	190.2	189.1	187.3	188.0
122.5°	206.8	207.1	206.8	205.7	203.9
125°	224.4	224.4	224.1	223.4	222.7
127.5°	240.3	241.4	240.7	240.0	239.6
130°	257.3	258.4	258.4	257.7	256.2
132.5°	274.6	275.3	275.0	274.3	273.9
135°	289.5	291.6	291.6	290.9	289.8
137.5°	306.1	307.1	307.9	306.8	307.1
140°	322.7	323.4	323.4	323.0	322.7
142.5°	337.9	338.6	338.2	338.2	338.2
145°	351.7	353.1	353.4	353.1	352.0
147.5°	365.8	367.6	367.2	366.9	366.5
150°	378.5	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)