

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: P1001229

Luminaire Tested: SA4XXDIP-B350D365UB27-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001229
REPORT IS A COMBINATION OF REPORTS P995845 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B350D365UB27-4F0-XX-W2A-F
Description: Define 4 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

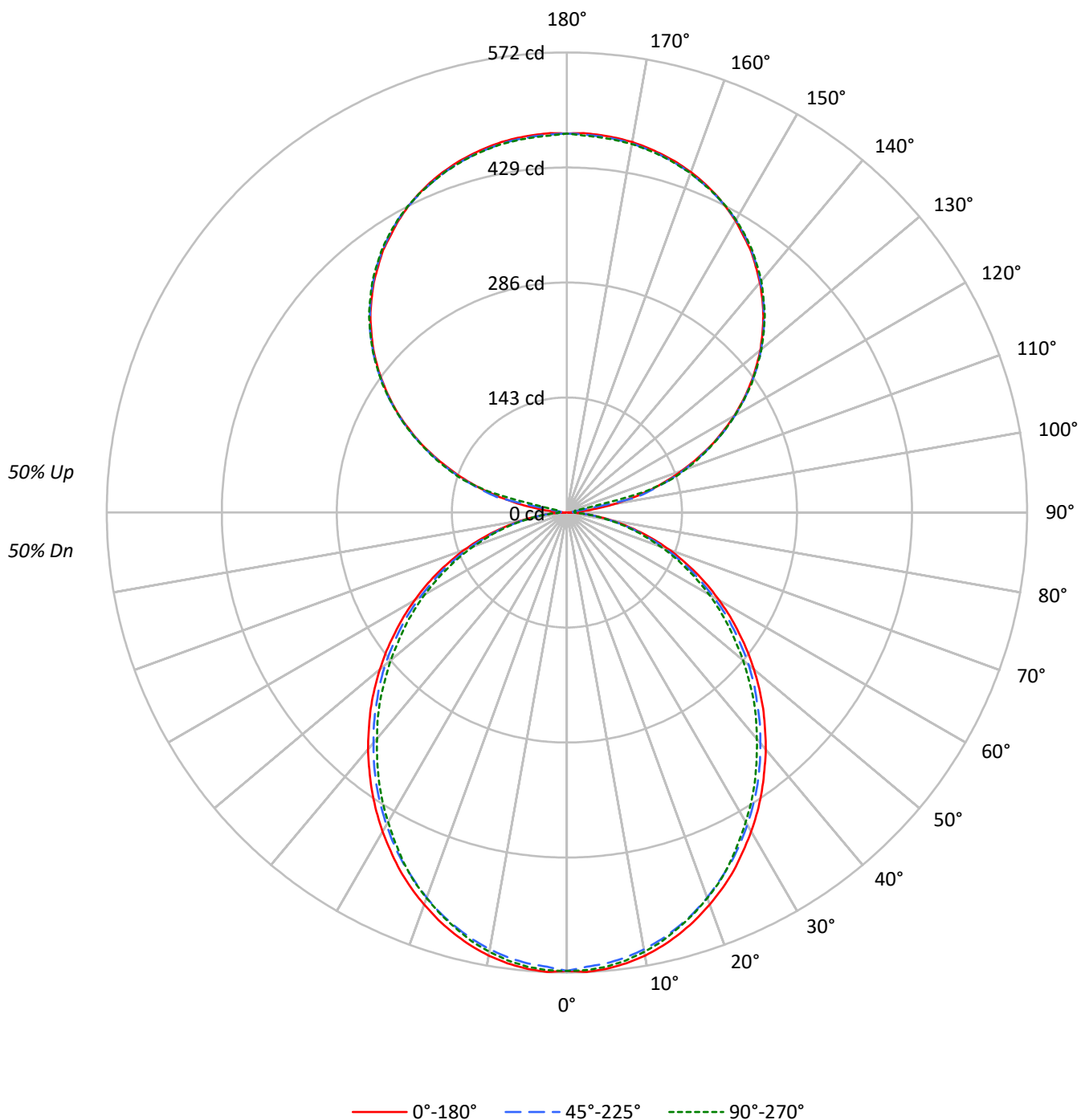
Lumens per Lamp: N/A
Luminaire Lumens: 2922.0 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	30	10
RCR																	
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56
1	98	93	90	86	90	86	83	80	73	71	68	61	59	58	50	48	47
2	89	82	75	70	82	75	70	66	64	60	57	53	51	48	44	42	40
3	81	72	64	58	75	66	60	55	56	52	48	47	44	41	39	36	34
4	74	63	56	49	68	59	52	46	50	45	41	42	38	35	35	32	29
5	68	57	48	42	63	52	45	40	45	39	35	38	34	30	31	28	25
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22
7	58	46	38	32	53	43	35	30	37	31	27	31	27	23	26	22	20
8	54	42	34	28	50	39	32	27	33	28	24	28	24	21	24	20	18
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	19	16
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4648	4648	4648
5°	4652	4514	4520
10°	4612	4389	4359
15°	4546	4240	4176
20°	4461	4079	3988
25°	4367	3909	3784
30°	4252	3724	3561
35°	4134	3536	3346
40°	4010	3333	3116
45°	3879	3129	2902
50°	3736	2932	2665
55°	3580	2702	2429
60°	3420	2450	2184
65°	3238	2189	1907
70°	3025	1876	1611
75°	2712	1511	1289
80°	2311	1093	907
85°	1797	607	488

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3879 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.7	1.8
10°-20°	151.4	5.2
20°-30°	222.8	7.6
30°-40°	258.9	8.9
40°-50°	258.9	8.9
50°-60°	226.5	7.8
60°-70°	168.1	5.8
70°-80°	95.4	3.3
80°-90°	28.3	1.0
90°-100°	15.7	0.5
100°-110°	103.0	3.5
110°-120°	196.7	6.7
120°-130°	249.7	8.5
130°-140°	267.1	9.1
140°-150°	249.8	8.5
150°-160°	201.4	6.9
160°-170°	129.9	4.4
170°-180°	44.8	1.5
0°-30°	427.8	14.6
0°-40°	686.8	23.5
0°-60°	1172.2	40.1
0°-90°	1464.0	50.1
90°-120°	315.4	10.8
90°-150°	1081.9	37.0
90°-180°	1458.0	49.9
0°-180°	2922.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	570	570	570	570	570	
5°	570	568	563	568	567	54
15°	542	540	534	536	535	153
25°	491	488	481	482	480	226
35°	422	419	413	410	407	264
45°	345	342	334	329	328	266
55°	261	259	253	248	245	234
65°	177	174	170	165	163	175
75°	94	92	90	88	87	100
85°	25	25	24	24	23	27
90°	1	5	8	10	11	3
95°	19	7	8	10	10	24
105°	106	108	110	113	100	111
115°	198	199	199	200	200	195
125°	278	280	279	280	280	249
135°	345	345	346	347	348	266
145°	398	399	399	400	400	249
155°	437	437	436	437	436	201
165°	461	459	459	462	458	130
175°	471	469	469	473	468	45
180°	471	471	471	471	471	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	570.0	570.0	570.0	570.0	570.0
2.5°	571.8	570.5	565.4	570.0	569.5
5°	569.5	567.7	562.7	567.7	566.8
7.5°	565.4	563.6	558.1	562.2	561.8
10°	559.5	557.7	551.7	555.4	554.5
12.5°	551.7	549.9	543.5	547.6	546.2
15°	542.1	540.3	533.5	536.2	534.8
17.5°	531.2	528.9	522.5	524.3	523.4
20°	518.8	516.6	509.7	511.1	510.2
22.5°	505.6	502.4	495.5	498.3	496.5
25°	491.0	487.8	481.4	481.8	480.0
27.5°	474.5	471.3	465.4	464.5	462.2
30°	458.1	454.4	448.5	446.7	444.4
32.5°	440.7	437.5	431.1	428.9	426.6
35°	422.5	419.3	412.9	409.7	407.4
37.5°	403.3	400.5	393.7	390.5	387.3
40°	384.6	380.9	374.1	369.5	367.2
42.5°	364.5	362.6	354.9	349.4	348.0
45°	344.8	341.6	334.3	329.3	327.9
47.5°	324.3	322.0	315.1	309.7	306.0
50°	303.3	301.4	295.0	288.7	285.9
52.5°	282.7	280.4	273.6	268.1	264.4
55°	260.8	259.4	253.0	247.5	244.8
57.5°	240.2	238.9	232.5	227.0	224.3
60°	218.8	216.5	210.6	206.4	204.2
62.5°	197.8	195.9	189.5	185.9	183.6
65°	176.8	174.5	169.9	165.3	163.1
67.5°	155.3	153.5	148.9	144.3	143.9
70°	135.6	132.5	128.8	125.1	123.8
72.5°	114.6	111.4	108.7	106.0	104.6
75°	94.1	91.8	89.5	87.7	87.2
77.5°	74.0	73.1	70.8	70.3	69.0
80°	56.2	54.8	53.9	53.0	52.5
82.5°	38.8	38.4	38.4	37.9	37.5
85°	24.7	24.7	23.7	23.7	23.3
87.5°	11.9	11.4	11.0	11.0	11.0
90°	1.1	4.9	7.8	9.9	10.6
92.5°	5.3	4.6	7.4	9.5	9.5
95°	19.4	7.4	7.8	9.9	10.2
97.5°	37.0	44.8	7.8	9.5	9.9
100°	57.8	64.1	15.5	9.5	9.9
102.5°	81.1	85.3	89.5	10.2	10.2
105°	106.1	108.2	110.0	113.1	100.4
107.5°	129.0	130.0	132.5	134.3	135.7
110°	152.2	153.3	155.4	156.1	157.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	174.8	176.9	177.6	177.3	178.7
115°	198.1	199.1	198.8	199.5	199.5
117.5°	218.9	220.3	221.3	221.0	221.0
120°	240.0	241.4	241.1	241.8	241.1
122.5°	259.7	260.4	261.1	261.5	260.8
125°	278.4	279.8	279.1	280.2	280.5
127.5°	296.4	296.7	298.5	298.1	297.8
130°	313.7	314.0	315.1	315.4	315.4
132.5°	329.5	330.2	331.6	332.0	331.6
135°	345.4	345.0	346.4	347.1	347.8
137.5°	359.5	359.5	361.2	361.9	361.6
140°	373.2	373.9	374.6	375.7	376.0
142.5°	385.6	387.0	387.3	388.0	388.0
145°	398.2	399.3	399.3	399.6	400.4
147.5°	408.1	410.2	409.9	410.2	410.6
150°	419.0	420.4	420.1	420.1	420.4
152.5°	428.2	429.3	428.5	429.3	428.9
155°	436.7	437.0	435.9	437.4	436.3
157.5°	444.1	444.1	442.6	444.4	442.6
160°	450.4	449.3	449.0	451.1	449.0
162.5°	456.0	454.6	454.3	456.4	453.9
165°	460.6	458.9	458.9	461.7	458.5
167.5°	464.5	462.7	462.4	465.6	462.0
170°	467.7	465.6	465.9	468.7	465.2
172.5°	469.8	467.7	468.0	470.8	467.0
175°	471.2	469.1	469.4	472.6	468.4
177.5°	472.2	469.8	470.5	473.3	469.1
180°	471.2	471.2	471.2	471.2	471.2

(END OF REPORT)