

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: P1001901

Luminaire Tested: SA4XXDIP-B795D590UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001901
REPORT IS A COMBINATION OF REPORTS P996526 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B795D590UB30-4F0-XX-W2A-D
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

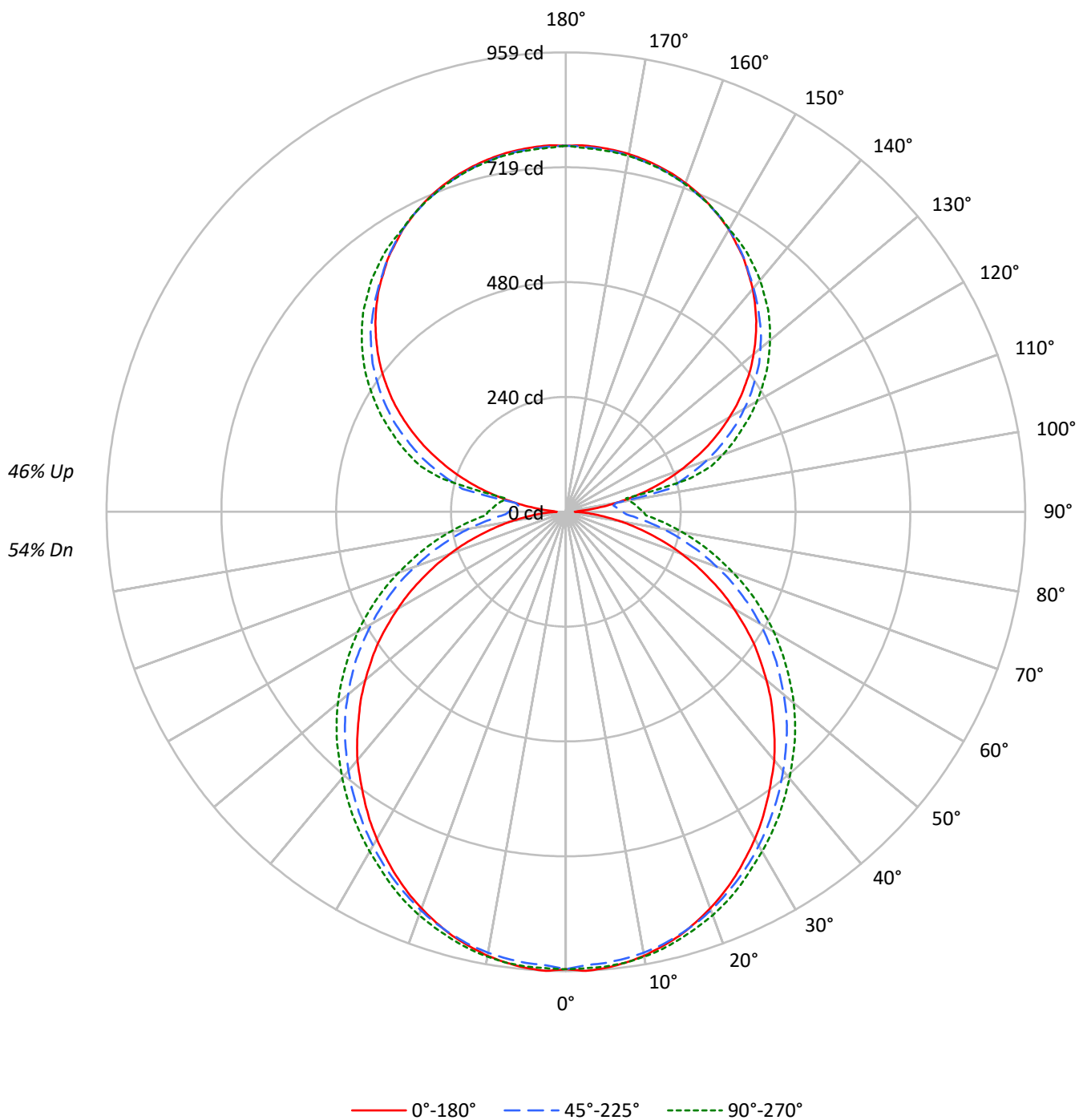
Lumens per Lamp: N/A
Luminaire Lumens: 5622.0 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 51.3
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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59
1	98	93	88	84	90	86	82	79	73	70	68	62	60	58	51	49	48
2	88	80	74	68	81	74	69	64	64	59	55	53	50	47	44	42	40
3	80	70	62	56	74	65	58	53	56	50	46	47	43	39	39	36	33
4	73	62	54	47	67	57	50	44	49	43	39	41	37	33	34	31	28
5	67	55	46	40	62	51	44	38	44	38	33	37	32	29	31	27	24
6	62	49	41	35	57	46	38	33	39	33	29	33	29	25	28	24	21
7	57	44	36	30	53	41	34	29	36	30	25	30	26	22	25	22	19
8	53	40	32	27	49	38	30	25	32	27	22	28	23	20	23	20	17
9	49	37	29	24	46	34	27	22	30	24	20	25	21	18	21	18	15
10	46	34	26	21	43	31	25	20	27	22	18	24	19	16	20	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7788	7788	7788
5°	7809	7585	7599
10°	7758	7435	7414
15°	7686	7268	7206
20°	7578	7086	7005
25°	7457	6886	6787
30°	7325	6687	6565
35°	7177	6485	6367
40°	7059	6289	6162
45°	6882	6107	5982
50°	6732	5899	5791
55°	6577	5698	5572
60°	6336	5450	5365
65°	6071	5181	5115
70°	5749	4874	4828
75°	5300	4533	4554
80°	4796	4186	4267
85°	4126	3836	4035

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6882 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	1.6
10°-20°	259.3	4.6
20°-30°	392.0	7.0
30°-40°	474.3	8.4
40°-50°	501.4	8.9
50°-60°	471.9	8.4
60°-70°	391.5	7.0
70°-80°	274.8	4.9
80°-90°	156.5	2.8
90°-100°	117.6	2.1
100°-110°	235.3	4.2
110°-120°	364.8	6.5
120°-130°	430.7	7.7
130°-140°	444.3	7.9
140°-150°	407.3	7.2
150°-160°	326.7	5.8
160°-170°	210.7	3.7
170°-180°	72.6	1.3
0°-30°	741.8	13.2
0°-40°	1216.0	21.6
0°-60°	2189.2	38.9
0°-90°	3012.0	53.6
90°-120°	717.7	12.8
90°-150°	2000.0	35.6
90°-180°	2610.0	46.4
0°-180°	5622.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	955	955	955	955	955	
5°	956	953	945	954	953	91
15°	916	918	914	924	923	258
25°	838	845	848	860	861	386
35°	734	746	757	772	775	459
45°	612	632	652	670	676	473
55°	479	502	534	555	562	427
65°	332	366	402	429	437	329
75°	184	224	268	298	308	195
85°	57	102	150	182	192	59
90°	19	68	118	153	162	13
95°	45	61	106	138	148	50
105°	182	206	249	281	269	191
115°	328	339	373	397	405	323
125°	456	457	482	505	512	407
135°	562	562	571	590	597	434
145°	647	648	648	654	660	404
155°	708	709	707	709	708	327
165°	747	744	744	749	744	211
175°	764	761	761	766	760	73
180°	764	764	764	764	764	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	955.0	955.0	955.0	955.0	955.0
2.5°	959.3	956.1	947.5	955.0	953.9
5°	956.1	952.9	945.4	953.9	952.9
7.5°	949.7	947.5	941.1	950.7	949.7
10°	941.1	940.0	934.7	944.3	943.2
12.5°	929.3	929.3	926.1	934.7	934.7
15°	916.5	917.6	914.4	924.0	922.9
17.5°	899.4	902.6	901.5	911.2	910.1
20°	881.2	884.4	885.5	896.2	896.2
22.5°	860.9	865.2	867.3	878.0	880.1
25°	838.4	844.9	848.1	859.8	860.9
27.5°	813.8	823.5	827.7	838.4	839.5
30°	789.2	797.8	805.3	817.0	819.2
32.5°	762.5	773.2	781.8	795.7	797.8
35°	733.6	746.5	757.2	772.1	775.3
37.5°	704.8	719.7	732.6	747.5	750.7
40°	677.0	690.9	705.8	721.9	726.1
42.5°	644.9	660.9	679.1	697.3	700.5
45°	611.7	632.0	652.4	670.5	675.9
47.5°	580.7	601.0	624.5	642.7	649.1
50°	546.5	570.0	593.5	614.9	621.3
52.5°	512.3	535.8	563.6	585.0	591.4
55°	479.1	501.6	533.6	555.0	561.5
57.5°	441.7	469.5	500.5	526.2	531.5
60°	405.3	433.1	468.4	493.0	501.6
62.5°	370.0	401.0	436.3	460.9	469.5
65°	331.5	365.7	402.1	428.8	437.4
67.5°	295.2	331.5	370.0	396.8	405.3
70°	257.7	294.1	334.7	363.6	371.1
72.5°	221.4	258.8	302.6	330.5	339.0
75°	183.9	223.5	268.4	298.4	308.0
77.5°	148.7	190.4	237.4	267.4	278.1
80°	116.6	159.3	206.4	238.5	247.0
82.5°	84.5	129.4	176.5	209.6	219.2
85°	56.7	101.6	149.7	181.8	192.5
87.5°	35.3	79.1	126.2	157.2	166.8
90°	18.8	67.9	118.5	152.9	162.5
92.5°	24.6	60.9	111.5	144.8	153.4
95°	45.3	61.2	105.6	137.9	148.1
97.5°	72.8	116.4	100.3	130.9	141.1
100°	105.5	143.6	106.4	125.6	133.6
102.5°	143.2	173.6	221.1	120.3	128.9
105°	181.6	206.5	248.9	280.8	268.8
107.5°	218.8	238.7	280.1	309.7	319.5
110°	255.5	272.1	313.0	338.8	349.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	291.0	307.2	343.6	366.6	377.5
115°	327.6	338.9	372.6	397.3	404.8
117.5°	361.3	370.0	403.8	425.7	434.2
120°	394.5	400.1	430.5	453.1	460.4
122.5°	426.5	427.6	457.7	479.7	486.0
125°	455.8	457.0	482.5	504.7	511.6
127.5°	484.9	484.4	508.7	527.3	534.2
130°	511.8	511.3	530.1	550.0	556.4
132.5°	537.6	537.6	552.8	571.6	577.4
135°	562.2	561.6	571.4	589.6	597.3
137.5°	585.0	584.0	591.1	608.3	613.1
140°	607.3	607.5	609.6	625.2	631.2
142.5°	626.3	628.6	628.1	641.0	645.2
145°	646.9	647.5	647.5	654.5	659.9
147.5°	662.9	665.2	664.7	666.3	671.1
150°	680.6	681.8	681.2	681.2	681.8
152.5°	694.4	696.1	695.0	696.1	695.5
155°	708.1	708.7	707.0	709.2	707.5
157.5°	720.1	720.1	717.8	720.7	717.8
160°	730.4	728.7	728.1	731.5	728.1
162.5°	739.5	737.2	736.7	740.1	736.1
165°	747.0	744.1	744.1	748.7	743.5
167.5°	753.3	750.4	749.8	755.0	749.2
170°	758.4	755.0	755.5	760.1	754.4
172.5°	761.8	758.4	759.0	763.5	757.3
175°	764.1	760.7	761.3	766.4	759.5
177.5°	765.8	761.8	763.0	767.5	760.7
180°	764.1	764.1	764.1	764.1	764.1

(END OF REPORT)