

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: P1001902

Luminaire Tested: SA4XXDIP-B795D590UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001902
REPORT IS A COMBINATION OF REPORTS P996527 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-D1
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

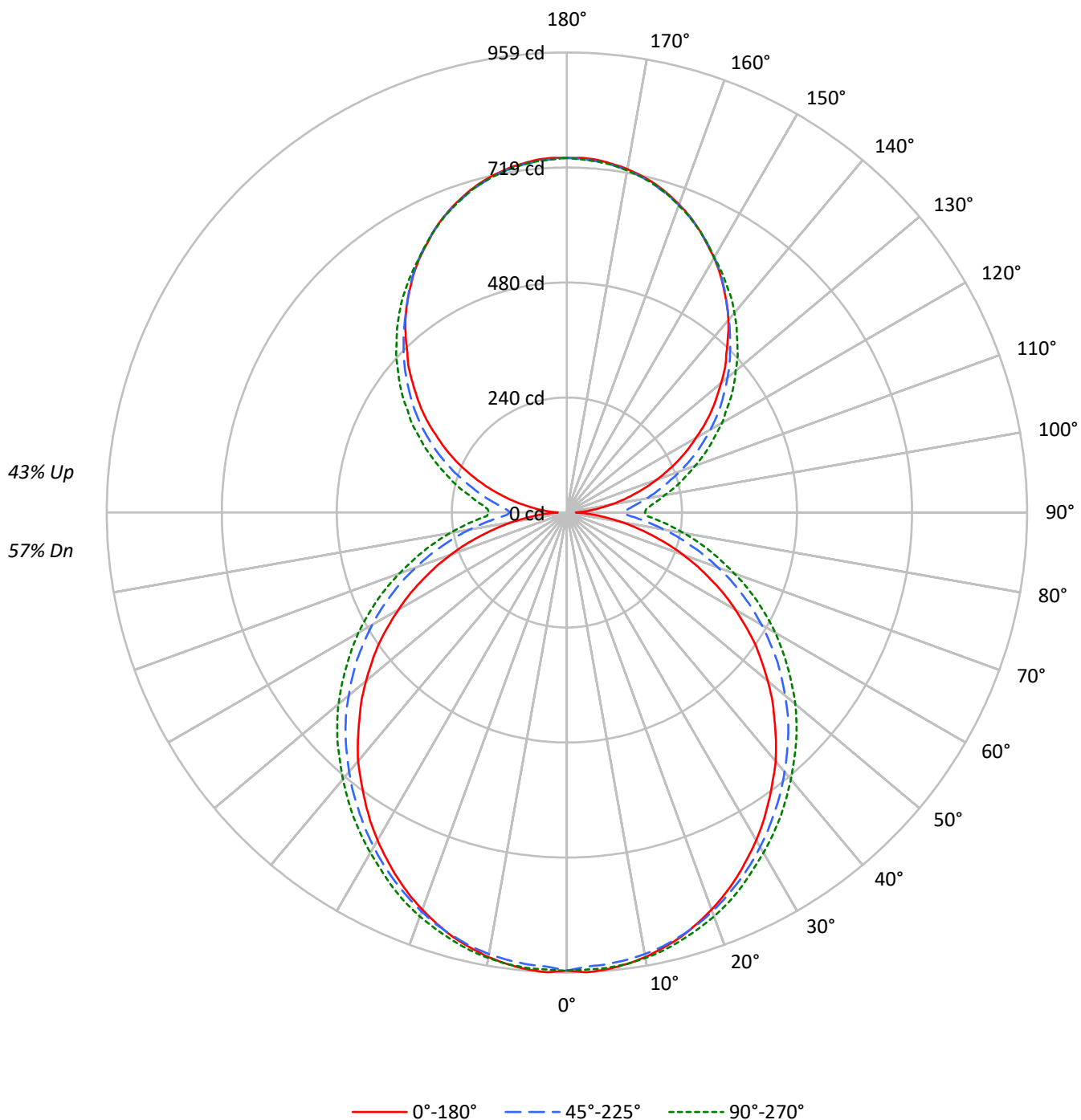
Lumens per Lamp: N/A
Luminaire Lumens: 5308.0 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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	109	109	109	109		101	101	101	101		87	87	87		74	74	74		62	62	62
1	98	93	89	85		91	87	83	80		75	72	69		64	61	59		53	52	50
2	89	81	74	68		82	75	69	64		65	60	56		55	52	49		46	44	41
3	81	71	63	56		75	66	59	53		57	51	47		48	44	41		41	37	35
4	74	62	54	47		68	58	51	45		50	44	40		43	38	35		36	33	30
5	68	55	47	40		62	52	44	38		45	39	34		38	33	30		32	29	26
6	62	50	41	35		58	46	39	33		40	34	29		35	30	26		29	25	22
7	57	45	36	31		53	42	34	29		36	30	26		31	26	23		27	23	20
8	53	41	32	27		49	38	31	26		33	27	23		29	24	20		24	21	18
9	50	37	29	24		46	35	28	23		30	25	20		26	22	18		22	19	16
10	46	34	26	21		43	32	25	20		28	22	18		24	20	16		21	17	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	1.7
10°-20°	259.3	4.9
20°-30°	392.0	7.4
30°-40°	474.3	8.9
40°-50°	501.4	9.4
50°-60°	471.9	8.9
60°-70°	391.5	7.4
70°-80°	274.8	5.2
80°-90°	156.5	2.9
90°-100°	140.4	2.6
100°-110°	212.6	4.0
110°-120°	290.9	5.5
120°-130°	349.0	6.6
130°-140°	374.2	7.1
140°-150°	359.0	6.8
150°-160°	300.1	5.7
160°-170°	199.7	3.8
170°-180°	69.9	1.3
0°-30°	741.8	14.0
0°-40°	1216.0	22.9
0°-60°	2189.2	41.2
0°-90°	3012.0	56.7
90°-120°	643.9	12.1
90°-150°	1726.2	32.5
90°-180°	2296.0	43.3
0°-180°	5308.0	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	14
95°	48	89	136	167	177	48
105°	143	165	207	235	245	152
115°	256	265	298	321	328	253
125°	367	366	392	412	417	328
135°	470	474	481	497	502	364
145°	570	571	572	577	580	357
155°	652	652	651	653	651	300
165°	709	708	706	710	708	200
175°	738	735	734	738	734	70
180°	739	739	739	739	739	

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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°	30.9	75.8	124.6	156.3	165.4
95°	48.2	88.6	136.4	167.1	176.7
97.5°	67.7	103.2	151.7	181.8	191.4
100°	91.8	121.9	168.7	198.8	206.2
102.5°	118.1	142.2	187.3	216.9	226.0
105°	142.8	164.7	206.6	235.0	245.4
107.5°	170.8	189.5	227.5	256.6	263.5
110°	198.3	214.4	251.3	274.8	285.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	227.0	239.8	273.9	297.4	306.0
115°	255.6	265.2	298.3	321.3	328.2
117.5°	283.6	290.0	321.5	342.3	349.1
120°	310.5	316.1	345.4	363.9	373.6
122.5°	339.6	340.2	368.5	388.2	392.9
125°	367.2	366.1	392.2	411.5	416.8
127.5°	392.9	393.6	413.8	431.9	438.8
130°	419.3	419.9	437.0	455.1	459.3
132.5°	447.3	447.3	459.7	476.7	482.5
135°	470.2	473.6	481.1	497.1	501.9
137.5°	497.0	497.8	503.1	517.5	523.4
140°	523.9	524.0	525.0	538.4	543.2
142.5°	547.5	548.6	547.0	558.8	563.0
145°	569.8	571.0	571.5	577.4	579.9
147.5°	592.6	594.4	593.8	594.3	598.0
150°	613.2	614.4	614.4	614.4	613.8
152.5°	631.5	632.7	633.3	635.0	633.3
155°	651.5	651.5	651.0	653.3	651.0
157.5°	668.7	667.5	667.5	669.3	667.5
160°	683.5	683.0	682.4	684.1	681.3
162.5°	697.3	695.6	695.0	698.4	695.6
165°	709.3	707.6	706.4	709.8	707.6
167.5°	719.0	716.7	716.7	720.1	716.7
170°	727.0	724.1	724.7	728.1	724.1
172.5°	732.7	730.4	730.4	734.4	730.4
175°	737.8	735.0	734.4	738.4	734.4
177.5°	740.1	737.3	737.3	741.3	736.7
180°	739.0	739.0	739.0	739.0	739.0

(END OF REPORT)