

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: P999530

Luminaire Tested: SA2XXRDIP-B290D330UB35-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999530
REPORT IS A COMBINATION OF REPORTS P988083 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B290D330UB35-4F0-XX-W2A-F
Description: Define 2 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

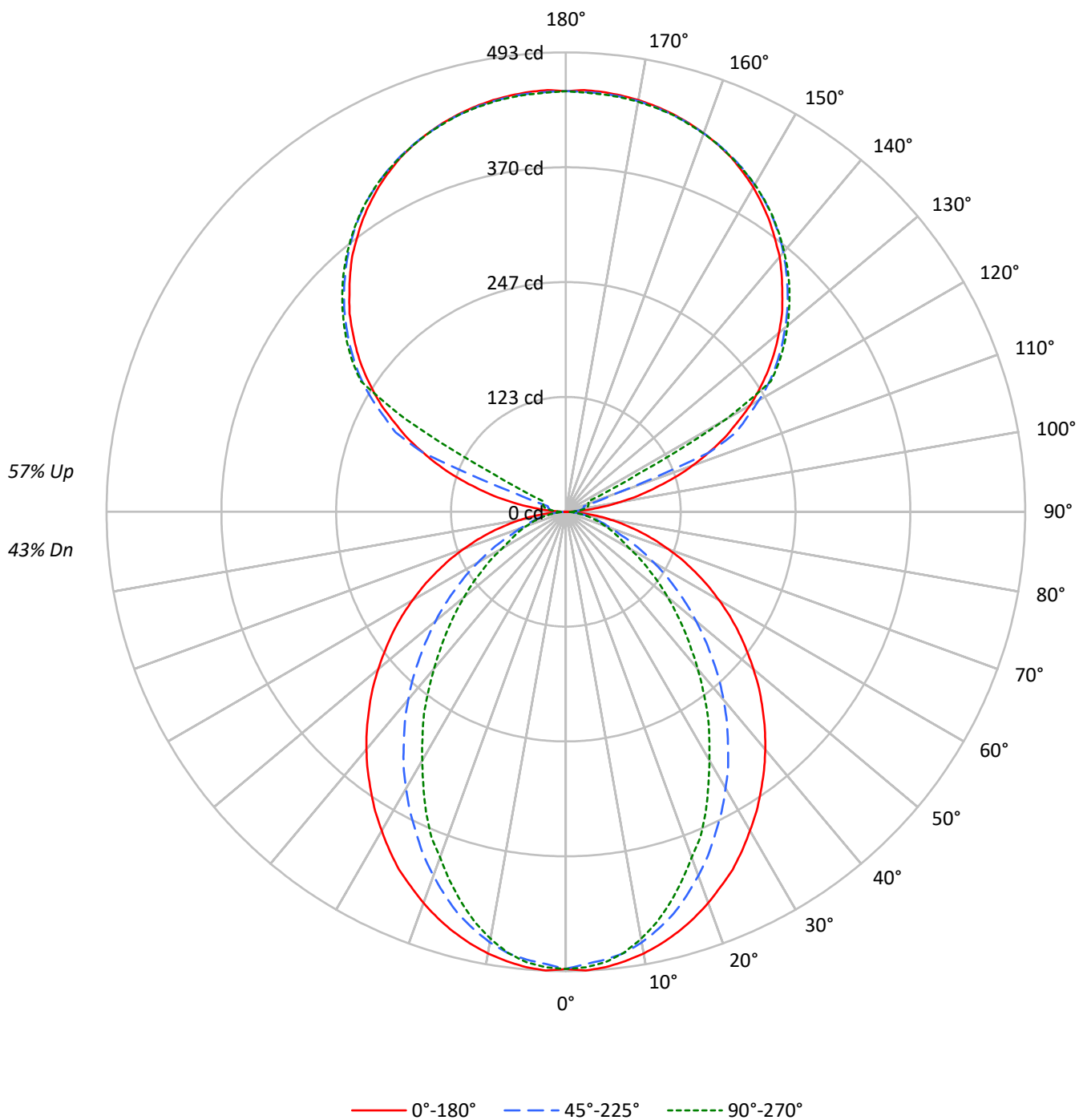
Lumens per Lamp: N/A
Luminaire Lumens: 2333.0 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	106	106	106	106	96	96	96	96	80	80	80	64	64	64	50	50	50
1	97	93	89	86	88	85	82	79	70	68	66	57	56	54	45	44	43
2	88	81	75	71	81	75	70	65	62	59	55	51	48	46	40	38	37
3	81	72	65	59	74	66	60	55	55	51	47	45	42	39	36	34	32
4	74	64	56	50	68	59	52	47	49	44	40	40	37	34	32	30	28
5	68	57	49	43	62	53	46	41	44	39	35	36	33	30	29	27	24
6	63	51	43	38	57	47	40	35	40	35	31	33	29	26	27	24	22
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	24	22	19
8	54	42	35	30	49	39	32	28	33	28	24	28	24	21	23	20	18
9	50	39	31	26	46	36	29	25	31	25	22	26	22	19	21	18	16
10	47	35	28	24	43	33	27	22	28	23	20	24	20	17	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7766	7766	7766
5°	7778	7388	7334
10°	7702	7007	6776
15°	7596	6558	6141
20°	7457	6047	5476
25°	7313	5522	4868
30°	7121	5011	4204
35°	6932	4494	3634
40°	6740	3989	3046
45°	6517	3467	2534
50°	6284	2963	2063
55°	6046	2459	1638
60°	5765	1967	1239
65°	5446	1500	1007
70°	5058	1088	801
75°	4570	829	612
80°	3864	561	410
85°	2698	256	198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6517 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.0	2.0
10°-20°	126.2	5.4
20°-30°	177.2	7.6
30°-40°	193.2	8.3
40°-50°	177.6	7.6
50°-60°	139.4	6.0
60°-70°	90.8	3.9
70°-80°	46.7	2.0
80°-90°	12.7	0.5
90°-100°	14.9	0.6
100°-110°	55.5	2.4
110°-120°	147.1	6.3
120°-130°	244.0	10.5
130°-140°	259.2	11.1
140°-150°	240.9	10.3
150°-160°	193.7	8.3
160°-170°	124.8	5.3
170°-180°	43.0	1.8
0°-30°	349.4	15.0
0°-40°	542.6	23.3
0°-60°	859.6	36.8
0°-90°	1009.8	43.3
90°-120°	217.5	9.3
90°-150°	961.7	41.2
90°-180°	1323.0	56.7
0°-180°	2333.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	491	491	491	491	491	
5°	491	488	483	487	485	47
15°	467	462	447	438	434	131
25°	424	409	380	362	355	195
35°	365	342	303	275	266	228
45°	298	269	222	190	180	230
55°	227	192	144	118	109	203
65°	153	117	77	62	61	152
75°	82	51	36	32	32	86
85°	19	10	8	8	8	22
90°	0	4	6	8	9	2
95°	21	10	13	14	14	25
105°	99	109	20	24	25	106
115°	188	193	202	50	27	185
125°	266	270	276	278	279	237
135°	329	334	337	340	339	254
145°	381	381	386	389	387	238
155°	420	417	421	423	420	193
165°	442	440	441	444	441	125
175°	452	450	451	453	450	43
180°	451	451	451	451	451	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	490.6	490.6	490.6	490.6	490.6
2.5°	492.8	490.6	485.7	490.2	489.3
5°	490.6	488.4	482.6	486.6	485.3
7.5°	486.6	483.9	477.7	479.5	477.3
10°	481.3	478.2	469.3	468.0	465.3
12.5°	474.6	470.6	458.6	456.0	451.1
15°	466.6	461.7	446.7	438.2	433.8
17.5°	457.3	450.2	431.6	421.8	414.7
20°	446.7	437.8	415.6	404.5	394.7
22.5°	435.1	424.9	399.1	384.1	377.4
25°	423.6	409.4	380.1	361.9	355.2
27.5°	409.8	394.7	362.3	341.4	331.2
30°	395.2	378.3	342.8	320.1	308.1
32.5°	380.9	360.5	324.1	297.5	286.4
35°	365.0	342.3	303.2	275.3	265.5
37.5°	349.4	325.0	283.7	253.1	242.0
40°	333.0	306.4	263.3	231.8	220.2
42.5°	316.1	287.7	242.9	210.0	198.9
45°	298.4	268.6	222.0	190.5	179.8
47.5°	281.5	250.0	202.0	170.5	160.7
50°	262.8	231.3	182.5	151.8	142.5
52.5°	244.6	211.3	163.8	134.5	126.1
55°	226.9	192.2	144.3	117.7	109.2
57.5°	208.7	173.2	127.0	102.1	95.0
60°	190.0	154.5	108.8	86.1	79.0
62.5°	171.8	136.3	93.2	71.9	68.4
65°	153.2	117.2	77.3	62.2	60.8
67.5°	135.4	99.5	62.2	54.6	53.3
70°	116.8	82.1	51.5	47.1	45.3
72.5°	99.0	66.2	43.1	39.5	38.6
75°	81.7	50.6	35.5	32.4	32.0
77.5°	64.4	36.0	28.0	26.2	25.3
80°	48.4	25.8	21.3	19.5	19.5
82.5°	33.7	17.3	14.7	13.8	13.8
85°	19.1	9.8	8.4	8.4	8.4
87.5°	7.1	3.6	3.6	3.1	3.1
90°	0.3	3.9	6.5	8.2	8.8
92.5°	8.2	6.9	7.8	8.5	8.8
95°	21.2	10.5	12.7	14.4	14.0
97.5°	38.2	11.4	16.7	17.6	18.0
100°	57.8	13.1	18.6	21.2	21.9
102.5°	79.4	78.7	19.3	22.9	23.8
105°	99.3	109.1	19.9	23.5	24.8
107.5°	122.5	130.6	20.6	24.2	25.5
110°	144.7	151.5	57.2	24.5	25.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	165.6	171.5	165.9	25.1	26.1
115°	187.8	193.3	201.5	50.3	26.8
117.5°	207.1	213.6	219.1	172.4	86.9
120°	228.6	233.5	239.4	243.3	199.2
122.5°	246.9	252.1	258.7	260.6	260.9
125°	265.5	269.8	276.0	278.3	279.2
127.5°	282.5	287.1	292.0	295.2	295.6
130°	298.5	303.7	307.3	310.9	310.6
132.5°	314.8	319.1	322.7	325.6	325.3
135°	328.6	333.8	336.7	340.0	339.3
137.5°	342.9	346.8	350.1	353.4	352.4
140°	357.0	359.6	363.2	366.1	364.5
142.5°	368.7	371.0	375.3	377.9	376.2
145°	381.1	380.8	386.4	388.6	387.0
147.5°	391.9	390.9	396.5	398.1	396.8
150°	402.4	400.1	405.3	407.3	405.6
152.5°	411.2	408.6	413.5	415.4	413.1
155°	419.7	416.7	420.7	422.6	420.0
157.5°	426.5	423.9	426.9	429.1	426.5
160°	432.4	430.5	432.4	434.4	432.1
162.5°	437.6	435.7	437.3	439.6	436.7
165°	442.2	440.2	441.2	443.5	441.2
167.5°	445.8	443.8	444.8	447.1	444.2
170°	448.7	446.8	447.4	449.7	446.8
172.5°	450.7	448.7	449.4	451.7	448.7
175°	452.3	450.0	450.7	453.0	449.7
177.5°	453.0	450.7	451.0	453.3	450.4
180°	451.4	451.4	451.4	451.4	451.4

(END OF REPORT)