

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: P999611

Luminaire Tested: SA2XXRDIP-B290D725UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999611
REPORT IS A COMBINATION OF REPORTS P988164 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B290D725UB35-4F0-XX-W2A-F1
Description: Define 2 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

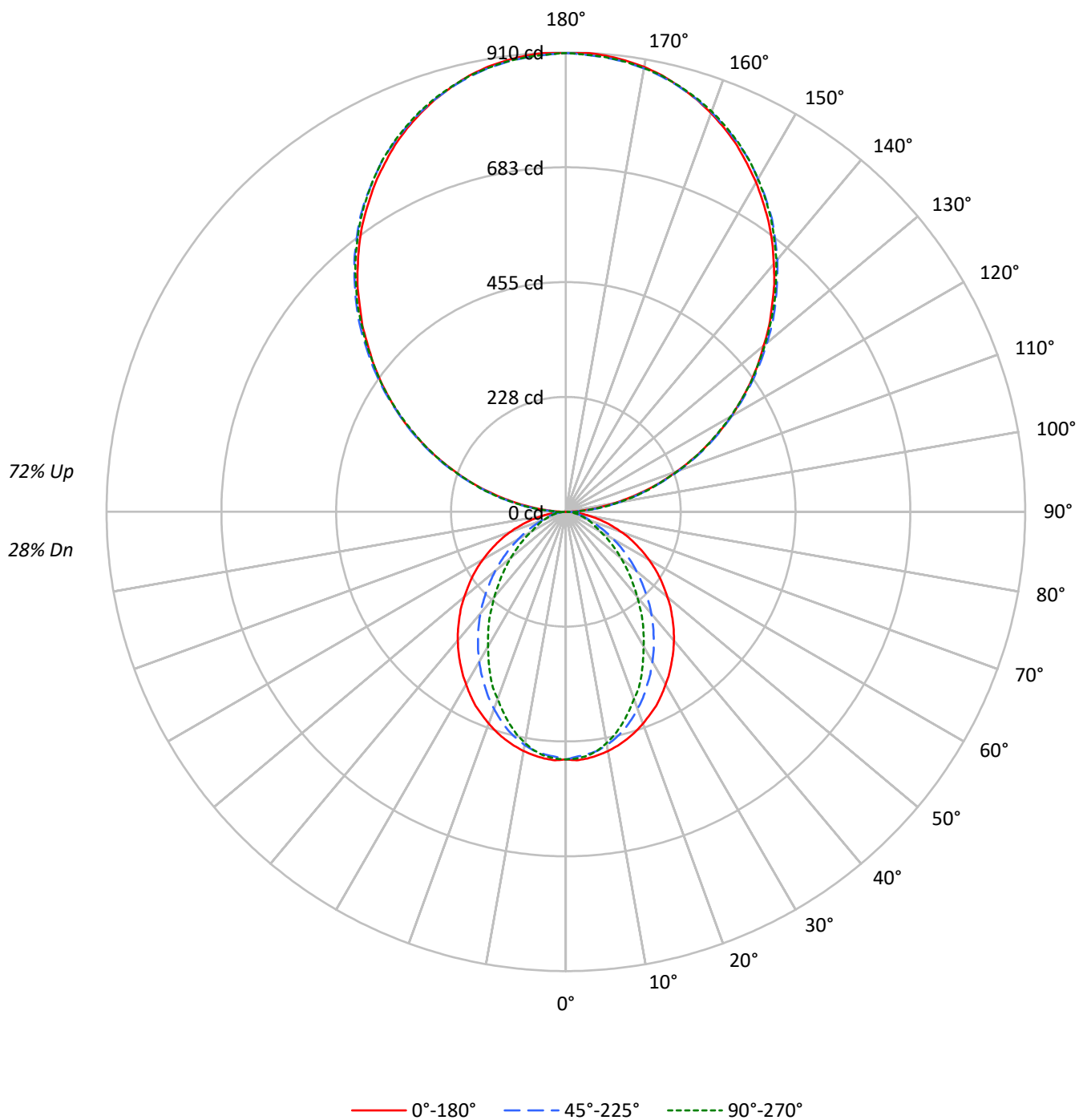
Lumens per Lamp: N/A
Luminaire Lumens: 3552.0 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36
1	93	89	85	82	83	80	77	74	63	61	59	47	46	45	32	32	31
2	85	78	72	67	76	70	65	61	55	52	49	42	39	38	29	28	27
3	78	69	62	56	69	62	56	51	49	45	42	37	34	32	26	24	23
4	71	61	54	48	64	55	49	44	44	39	36	33	30	28	23	21	20
5	65	54	47	41	58	49	42	38	39	34	31	30	27	24	21	19	18
6	60	49	41	36	54	44	37	33	35	30	27	27	24	21	19	17	16
7	56	44	36	31	50	40	33	29	32	27	24	24	21	19	18	15	14
8	51	40	32	27	46	36	30	25	29	24	21	22	19	17	16	14	13
9	48	36	29	24	43	33	27	22	27	22	19	21	17	15	15	13	11
10	45	33	26	22	40	30	24	20	24	20	17	19	16	14	14	12	10

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	1.3
10°-20°	126.2	3.6
20°-30°	177.2	5.0
30°-40°	193.2	5.4
40°-50°	177.6	5.0
50°-60°	139.4	3.9
60°-70°	90.8	2.6
70°-80°	46.7	1.3
80°-90°	14.5	0.4
90°-100°	56.2	1.6
100°-110°	178.7	5.0
110°-120°	305.8	8.6
120°-130°	402.1	11.3
130°-140°	451.4	12.7
140°-150°	442.6	12.5
150°-160°	371.3	10.5
160°-170°	246.2	6.9
170°-180°	86.1	2.4
0°-30°	349.4	9.8
0°-40°	542.6	15.3
0°-60°	859.6	24.2
0°-90°	1011.6	28.5
90°-120°	540.7	15.2
90°-150°	1836.8	51.7
90°-180°	2540.0	71.5
0°-180°	3552.0	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°	1	10	27	25	26	4
95°	40	48	49	49	48	45
105°	165	167	169	170	170	174
115°	307	311	310	309	307	303
125°	446	453	451	449	448	399
135°	577	586	587	587	584	446
145°	701	706	711	712	708	438
155°	801	804	806	810	807	369
165°	872	871	871	876	873	246
175°	907	905	903	909	904	86
180°	909	909	909	909	909	

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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°	0.8	10.0	26.8	25.3	26.1
92.5°	16.9	23.0	23.8	24.5	24.5
95°	39.9	47.5	49.1	49.1	47.5
97.5°	66.7	73.6	76.7	76.7	76.7
100°	97.4	103.5	105.8	105.8	105.1
102.5°	129.6	134.2	137.3	138.0	137.3
105°	164.9	167.2	168.7	170.2	170.2
107.5°	200.1	203.2	203.2	204.0	200.1
110°	233.9	238.5	238.5	238.5	236.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	270.7	275.3	274.5	272.2	270.7
115°	306.7	311.3	309.8	309.0	306.7
117.5°	342.8	348.9	345.1	342.8	340.5
120°	378.8	384.9	378.8	378.8	376.5
122.5°	411.8	419.4	415.6	413.3	411.8
125°	446.3	453.2	450.9	448.6	447.8
127.5°	480.0	488.4	485.4	482.3	480.0
130°	511.5	521.4	519.9	518.4	515.3
132.5°	546.7	554.4	555.2	551.3	549.0
135°	577.4	585.8	587.4	586.6	584.3
137.5°	611.1	618.0	619.6	618.8	615.7
140°	641.0	647.9	651.8	651.8	648.7
142.5°	671.7	678.6	680.9	681.7	678.6
145°	700.8	706.2	710.8	711.6	708.5
147.5°	726.9	733.8	736.9	738.4	735.4
150°	753.8	758.4	761.4	763.7	761.4
152.5°	777.5	782.1	786.0	789.0	786.0
155°	801.3	803.6	805.9	809.7	807.4
157.5°	822.0	823.5	825.1	830.4	826.6
160°	840.4	841.9	842.7	847.3	844.2
162.5°	857.3	857.3	858.0	863.4	859.6
165°	871.8	871.1	871.1	876.4	872.6
167.5°	884.9	882.6	882.6	887.9	884.1
170°	894.8	892.5	891.8	897.1	892.5
172.5°	901.7	899.4	898.7	904.0	899.4
175°	907.1	904.8	903.3	908.7	904.0
177.5°	910.2	907.9	906.3	911.0	906.3
180°	908.7	908.7	908.7	908.7	908.7

(END OF REPORT)