

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: P999488

Luminaire Tested: SA2XXRDIP-B290D1080UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999488
REPORT IS A COMBINATION OF REPORTS P988039 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B290D1080UB30-4F0-XX-W2A-F4
Description: Define 2 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

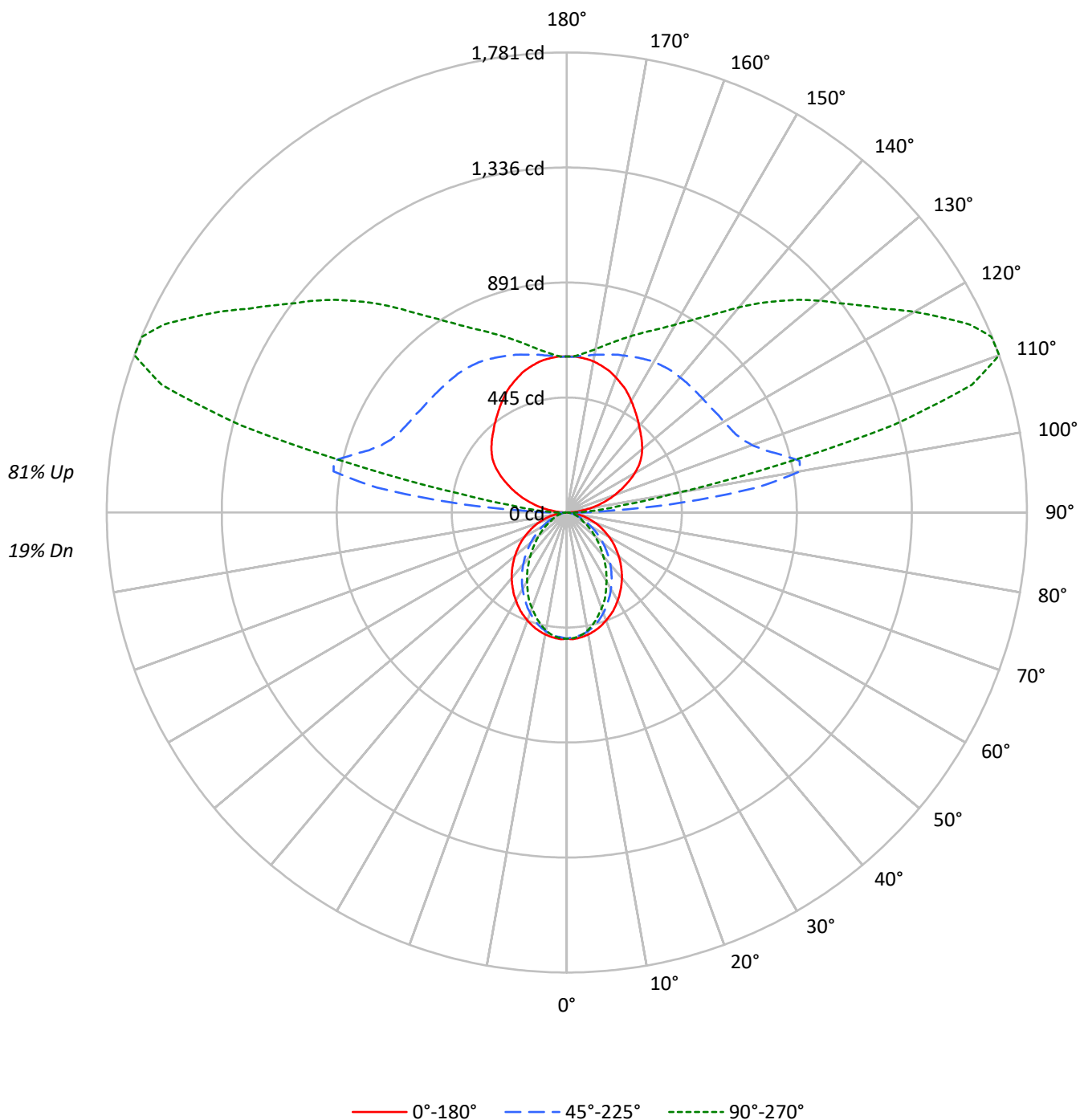
Lumens per Lamp: N/A
Luminaire Lumens: 5217.8 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
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

TEST NUMBER: P999488

CATALOG NUMBER: SA2XXRDIP-B290D1080UB30-4F0-XX-W2A-F4

Luminous Intensity Polar Plot



TEST NUMBER: P999488

CATALOG NUMBER: SA2XXRDIP-B290D1080UB30-4F0-XX-W2A-F4

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	100	100	100	100	88	88	88	88	66	66	66	46	46	46	28	28	28
1	91	87	83	80	80	77	74	71	58	56	54	41	40	39	25	24	24
2	83	76	70	66	73	67	63	59	51	48	45	36	34	33	22	21	20
3	76	67	60	55	67	59	54	49	45	41	38	32	30	28	20	19	18
4	69	59	52	46	61	53	46	42	40	36	33	29	26	24	18	16	15
5	64	53	45	39	56	47	40	36	36	31	28	26	23	21	16	15	13
6	58	47	40	34	51	42	36	31	32	28	24	23	20	18	15	13	12
7	54	42	35	30	47	38	31	27	29	25	21	21	18	16	13	12	10
8	50	38	31	26	44	34	28	24	26	22	19	19	16	14	12	11	9
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	11	10	8
10	43	32	25	21	38	28	23	19	22	18	15	16	13	11	10	9	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7736	7736	7736
5°	7748	7359	7305
10°	7672	6979	6750
15°	7566	6532	6117
20°	7427	6022	5454
25°	7284	5499	4849
30°	7092	4991	4187
35°	6903	4477	3620
40°	6713	3973	3034
45°	6491	3452	2524
50°	6261	2952	2056
55°	6022	2449	1632
60°	5744	1958	1234
65°	5425	1492	1004
70°	5037	1083	798
75°	4554	827	609
80°	3848	559	410
85°	2684	256	198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6491 cd/sqm

TEST NUMBER: P999488

CATALOG NUMBER: SA2XXRDIP-B290D1080UB30-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.8	0.9
10°-20°	125.7	2.4
20°-30°	176.5	3.4
30°-40°	192.4	3.7
40°-50°	176.8	3.4
50°-60°	138.9	2.7
60°-70°	90.4	1.7
70°-80°	46.5	0.9
80°-90°	15.7	0.3
90°-100°	244.7	4.7
100°-110°	827.3	15.9
110°-120°	869.6	16.7
120°-130°	715.1	13.7
130°-140°	574.7	11.0
140°-150°	434.1	8.3
150°-160°	305.2	5.8
160°-170°	179.7	3.4
170°-180°	58.5	1.1
0°-30°	348.0	6.7
0°-40°	540.4	10.4
0°-60°	856.2	16.4
0°-90°	1008.8	19.3
90°-120°	1941.7	37.2
90°-150°	3665.6	70.3
90°-180°	4209.0	80.7
0°-180°	5217.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	489	489	489	489	489	
5°	489	486	481	485	483	46
15°	465	460	445	436	432	131
25°	422	408	378	360	354	194
35°	364	341	302	274	264	228
45°	297	268	221	190	179	230
55°	226	192	144	117	109	202
65°	153	117	77	62	61	151
75°	81	50	35	32	32	86
85°	19	10	8	8	8	22
90°	1	16	40	38	38	4
95°	41	100	455	172	132	42
105°	142	214	860	1538	1308	150
115°	250	315	720	1485	1722	248
125°	348	412	692	1203	1397	310
135°	409	488	684	1011	1158	316
145°	467	536	680	845	924	293
155°	531	573	661	747	777	244
165°	578	596	633	671	682	163
175°	602	603	608	616	614	57
180°	604	604	604	604	604	

TEST NUMBER: P999488

CATALOG NUMBER: SA2XXRDIP-B290D1080UB30-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	488.7	488.7	488.7	488.7	488.7
2.5°	490.9	488.7	483.8	488.2	487.3
5°	488.7	486.5	480.7	484.7	483.4
7.5°	484.7	482.0	475.8	477.6	475.4
10°	479.4	476.3	467.4	466.1	463.5
12.5°	472.7	468.8	456.8	454.2	449.3
15°	464.8	459.9	444.9	436.5	432.1
17.5°	455.5	448.4	429.8	420.1	413.0
20°	444.9	436.0	413.9	402.9	393.1
22.5°	433.4	423.2	397.6	382.5	375.9
25°	421.9	407.7	378.5	360.4	353.8
27.5°	408.2	393.1	360.9	340.1	329.9
30°	393.6	376.8	341.4	318.8	306.9
32.5°	379.4	359.1	322.8	296.3	285.2
35°	363.5	341.0	302.0	274.2	264.5
37.5°	348.0	323.7	282.6	252.1	241.0
40°	331.7	305.1	262.2	230.8	219.3
42.5°	314.9	286.6	241.9	209.2	198.1
45°	297.2	267.5	221.1	189.7	179.1
47.5°	280.4	249.0	201.2	169.8	160.1
50°	261.8	230.4	181.8	151.2	142.0
52.5°	243.7	210.5	163.2	134.0	125.6
55°	226.0	191.5	143.7	117.2	108.8
57.5°	207.8	172.5	126.5	101.7	94.6
60°	189.3	153.9	108.3	85.8	78.7
62.5°	171.1	135.8	92.9	71.6	68.1
65°	152.6	116.7	76.9	61.9	60.6
67.5°	134.9	99.1	61.9	54.4	53.1
70°	116.3	81.8	51.3	46.9	45.1
72.5°	98.6	65.9	42.9	39.4	38.5
75°	81.4	50.4	35.4	32.3	31.8
77.5°	64.1	35.8	27.9	26.1	25.2
80°	48.2	25.6	21.2	19.5	19.5
82.5°	33.6	17.2	14.6	13.7	13.7
85°	19.0	9.7	8.4	8.4	8.4
87.5°	7.1	3.5	3.5	3.1	3.1
90°	1.2	15.6	39.5	37.8	38.3
92.5°	17.4	55.2	178.8	82.4	70.8
95°	40.6	99.8	455.1	171.8	132.3
97.5°	60.4	131.8	741.8	344.8	221.7
100°	89.4	161.4	917.1	686.7	415.6
102.5°	116.1	188.0	923.0	1161.0	810.3
105°	141.6	213.6	860.3	1537.6	1308.4
107.5°	169.5	239.2	802.2	1674.1	1643.9
110°	197.4	265.2	762.7	1652.0	1780.9

TEST NUMBER: P999488

CATALOG NUMBER: SA2XXRDIP-B290D1080UB30-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	222.9	290.2	737.2	1577.1	1778.6
115°	249.6	315.2	719.8	1485.4	1721.7
117.5°	277.5	340.2	710.5	1397.8	1635.8
120°	303.0	364.6	702.4	1319.4	1553.3
122.5°	327.4	389.5	697.7	1258.4	1467.4
125°	348.3	412.2	691.9	1203.4	1396.6
127.5°	365.7	433.6	688.4	1156.3	1330.4
130°	380.8	452.8	686.1	1108.7	1275.9
132.5°	394.7	471.4	685.0	1059.4	1219.0
135°	408.7	487.6	683.8	1011.2	1157.5
137.5°	421.4	501.5	683.8	962.4	1098.3
140°	436.5	514.3	682.6	919.4	1036.7
142.5°	451.6	524.8	682.6	878.2	975.2
145°	466.7	536.4	680.3	844.6	924.1
147.5°	483.0	545.6	676.8	815.0	878.8
150°	499.2	555.0	673.3	789.4	839.4
152.5°	515.5	564.2	667.5	768.0	805.7
155°	530.6	572.9	660.6	747.1	776.7
157.5°	543.3	579.8	653.6	727.4	751.1
160°	556.1	586.8	646.6	707.6	726.8
162.5°	568.9	592.0	640.8	689.0	703.5
165°	578.2	595.6	632.7	671.0	681.5
167.5°	586.3	599.0	625.7	654.8	660.6
170°	594.4	600.8	619.9	639.6	642.0
172.5°	599.0	602.6	613.0	626.3	626.9
175°	602.5	603.1	608.3	615.9	614.1
177.5°	604.9	603.7	603.7	608.3	604.9
180°	603.7	603.7	603.7	603.7	603.7

(END OF REPORT)