

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: P999664

Luminaire Tested: SA2XXRDIP-B290D925UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P999664
REPORT IS A COMBINATION OF REPORTS P988217 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B290D925UB50-4F0-XX-W2A-F4
Description: Define 2 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

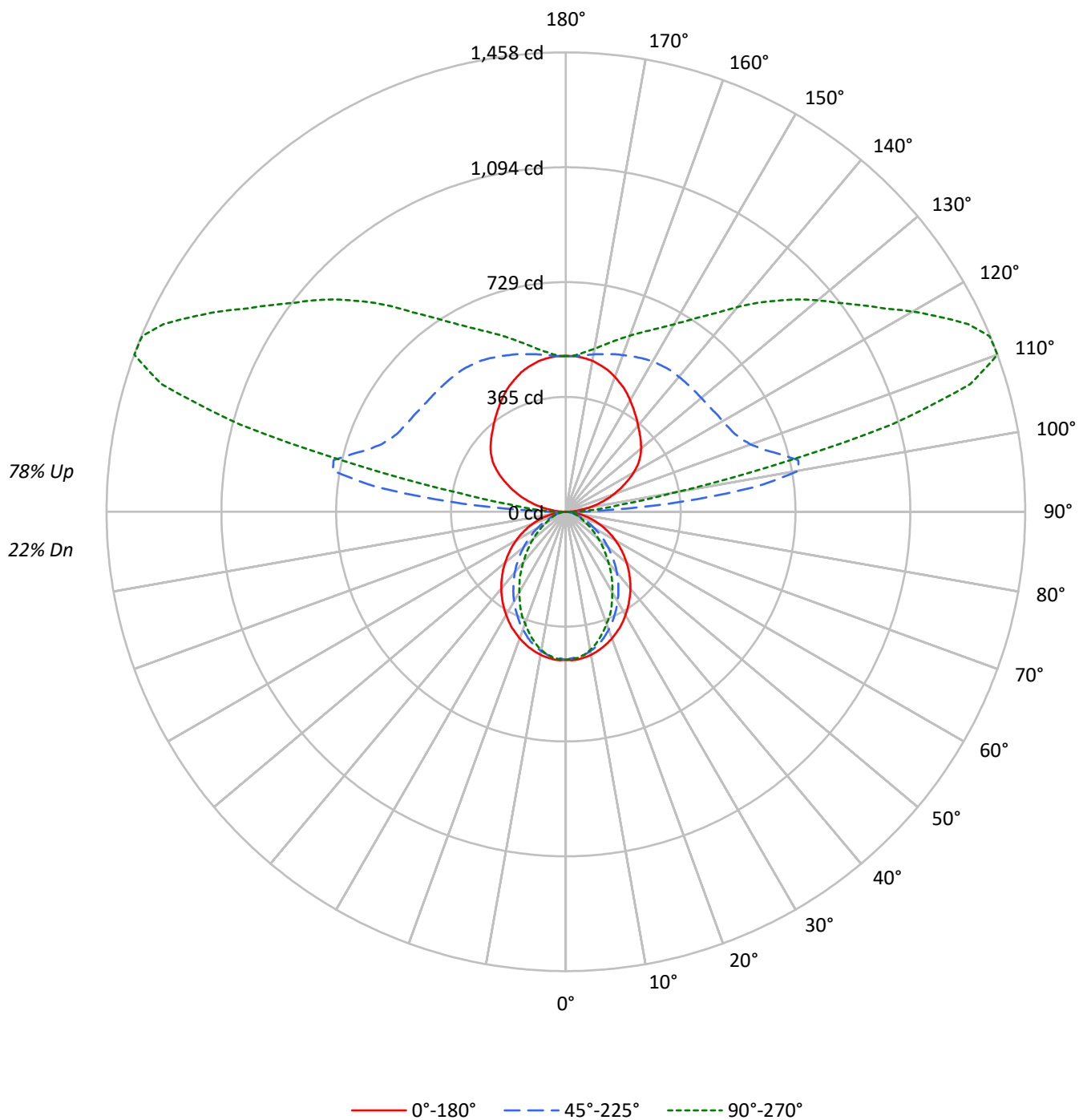
Lumens per Lamp: N/A
Luminaire Lumens: 4414.0 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
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: P999664

CATALOG NUMBER: SA2XXRDIP-B290D925UB50-4F0-XX-W2A-F4

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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	100	100	100	100	89	89	89	89	68	68	68	48	48	48	30	30	30	30	30	22
1	92	88	84	81	81	78	75	72	59	58	56	43	41	40	27	26	26	26	26	19
2	84	77	71	66	74	68	63	59	52	49	46	38	36	34	24	23	22	22	22	16
3	76	68	61	55	67	60	54	50	46	42	39	33	31	29	22	20	19	19	19	14
4	70	60	52	47	62	53	47	42	41	37	33	30	27	25	19	18	17	17	17	12
5	64	53	46	40	57	47	41	36	37	32	29	27	24	22	17	16	15	15	15	11
6	59	48	40	34	52	43	36	31	33	28	25	24	21	19	16	14	13	13	13	9
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	11	11	11	8
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	13	12	10	10	10	8
9	47	35	28	23	41	32	26	21	25	20	17	18	15	13	12	11	9	9	9	7
10	44	32	25	21	39	29	23	19	23	18	15	17	14	12	11	10	8	8	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7435	7435	7435
5°	7447	7073	7021
10°	7374	6709	6488
15°	7272	6278	5879
20°	7138	5789	5243
25°	7001	5287	4661
30°	6816	4798	4025
35°	6636	4303	3479
40°	6452	3820	2916
45°	6238	3318	2427
50°	6017	2836	1975
55°	5788	2354	1569
60°	5520	1882	1187
65°	5212	1436	964
70°	4842	1041	768
75°	4375	794	586
80°	3696	538	393
85°	2585	247	190

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6238 cd/sqm

TEST NUMBER: P999664

CATALOG NUMBER: SA2XXRDIP-B290D925UB50-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.0	1.0
10°-20°	120.8	2.7
20°-30°	169.7	3.8
30°-40°	184.9	4.2
40°-50°	170.0	3.9
50°-60°	133.5	3.0
60°-70°	86.9	2.0
70°-80°	44.7	1.0
80°-90°	14.6	0.3
90°-100°	200.3	4.5
100°-110°	677.1	15.3
110°-120°	711.8	16.1
120°-130°	585.3	13.3
130°-140°	470.3	10.7
140°-150°	355.3	8.0
150°-160°	249.8	5.7
160°-170°	147.1	3.3
170°-180°	47.8	1.1
0°-30°	334.5	7.6
0°-40°	519.5	11.8
0°-60°	823.0	18.6
0°-90°	969.2	22.0
90°-120°	1589.2	36.0
90°-150°	3000.1	68.0
90°-180°	3445.0	78.0
0°-180°	4414.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	470	470	470	470	470	
5°	470	468	462	466	465	45
15°	447	442	428	420	415	126
25°	406	392	364	346	340	186
35°	349	328	290	264	254	219
45°	286	257	212	182	172	221
55°	217	184	138	113	105	194
65°	147	112	74	60	58	145
75°	78	48	34	31	31	83
85°	18	9	8	8	8	21
90°	1	13	32	31	31	3
95°	33	82	372	141	108	34
105°	116	175	704	1258	1071	123
115°	204	258	589	1216	1409	203
125°	285	337	566	985	1143	253
135°	334	399	560	828	947	258
145°	382	439	557	691	756	240
155°	434	469	541	611	636	200
165°	473	487	518	549	558	133
175°	493	494	498	504	503	47
180°	494	494	494	494	494	

TEST NUMBER: P999664

CATALOG NUMBER: SA2XXRDIP-B290D925UB50-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	469.7	469.7	469.7	469.7	469.7
2.5°	471.8	469.7	465.0	469.3	468.4
5°	469.7	467.6	462.0	465.9	464.6
7.5°	465.9	463.3	457.4	459.1	456.9
10°	460.8	457.8	449.3	448.0	445.5
12.5°	454.4	450.6	439.1	436.5	431.9
15°	446.7	442.1	427.6	419.5	415.3
17.5°	437.8	431.0	413.2	403.8	397.0
20°	427.6	419.1	397.9	387.2	377.9
22.5°	416.6	406.8	382.1	367.7	361.3
25°	405.5	391.9	363.9	346.4	340.1
27.5°	392.3	377.9	346.9	326.9	317.1
30°	378.3	362.2	328.2	306.5	295.0
32.5°	364.7	345.2	310.3	284.8	274.2
35°	349.4	327.7	290.3	263.5	254.2
37.5°	334.5	311.2	271.6	242.3	231.7
40°	318.8	293.3	252.1	221.9	210.8
42.5°	302.6	275.4	232.5	201.1	190.4
45°	285.6	257.2	212.5	182.4	172.2
47.5°	269.5	239.3	193.4	163.2	153.9
50°	251.6	221.5	174.7	145.4	136.4
52.5°	234.2	202.3	156.9	128.8	120.7
55°	217.2	184.1	138.1	112.6	104.6
57.5°	199.8	165.8	121.6	97.8	91.0
60°	181.9	147.9	104.1	82.5	75.7
62.5°	164.5	130.5	89.3	68.9	65.5
65°	146.6	112.2	74.0	59.5	58.2
67.5°	129.6	95.2	59.5	52.3	51.0
70°	111.8	78.6	49.3	45.1	43.4
72.5°	94.8	63.3	41.2	37.8	37.0
75°	78.2	48.5	34.0	31.0	30.6
77.5°	61.6	34.4	26.8	25.1	24.2
80°	46.3	24.7	20.4	18.7	18.7
82.5°	32.3	16.6	14.0	13.2	13.2
85°	18.3	9.4	8.1	8.1	8.1
87.5°	6.8	3.4	3.4	3.0	3.0
90°	1.0	12.8	32.3	30.9	31.4
92.5°	14.3	45.2	146.3	67.5	58.0
95°	33.3	81.7	372.5	140.6	108.3
97.5°	49.4	107.8	607.2	282.2	181.5
100°	73.2	132.1	750.6	562.0	340.2
102.5°	95.0	153.9	755.4	950.2	663.2
105°	115.9	174.8	704.1	1258.5	1070.8
107.5°	138.7	195.7	656.6	1370.1	1345.4
110°	161.5	217.1	624.3	1352.0	1457.6

TEST NUMBER: P999664

CATALOG NUMBER: SA2XXRDIP-B290D925UB50-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	182.4	237.6	603.4	1290.8	1455.7
115°	204.3	258.0	589.1	1215.8	1409.1
117.5°	227.1	278.4	581.5	1144.0	1338.8
120°	248.0	298.4	574.8	1079.8	1271.3
122.5°	267.9	318.8	571.0	1030.0	1201.0
125°	285.0	337.3	566.3	984.8	1143.0
127.5°	299.3	354.9	563.4	946.4	1088.9
130°	311.7	370.6	561.5	907.4	1044.2
132.5°	323.1	385.8	560.6	867.0	997.7
135°	334.5	399.1	559.6	827.6	947.3
137.5°	344.9	410.4	559.6	787.6	898.9
140°	357.3	421.0	558.7	752.5	848.5
142.5°	369.6	429.5	558.7	718.8	798.1
145°	382.0	439.0	556.8	691.2	756.3
147.5°	395.3	446.6	553.9	667.0	719.3
150°	408.6	454.2	551.1	646.2	687.0
152.5°	421.9	461.8	546.3	628.6	659.4
155°	434.2	468.9	540.6	611.4	635.7
157.5°	444.7	474.6	534.9	595.3	614.8
160°	455.1	480.3	529.2	579.2	594.8
162.5°	465.6	484.6	524.5	563.9	575.8
165°	473.2	487.4	517.8	549.2	557.7
167.5°	479.8	490.3	512.1	535.9	540.6
170°	486.5	491.7	507.4	523.6	525.4
172.5°	490.3	493.2	501.7	512.6	513.1
175°	493.1	493.6	497.9	504.0	502.6
177.5°	495.0	494.1	494.1	497.9	495.0
180°	494.1	494.1	494.1	494.1	494.1

(END OF REPORT)