

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: P999623

Luminaire Tested: SA2XXRDIP-B290D725UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P999623
REPORT IS A COMBINATION OF REPORTS P988176 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B290D725UB50-4F0-XX-W2A-F1
Description: Define 2 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

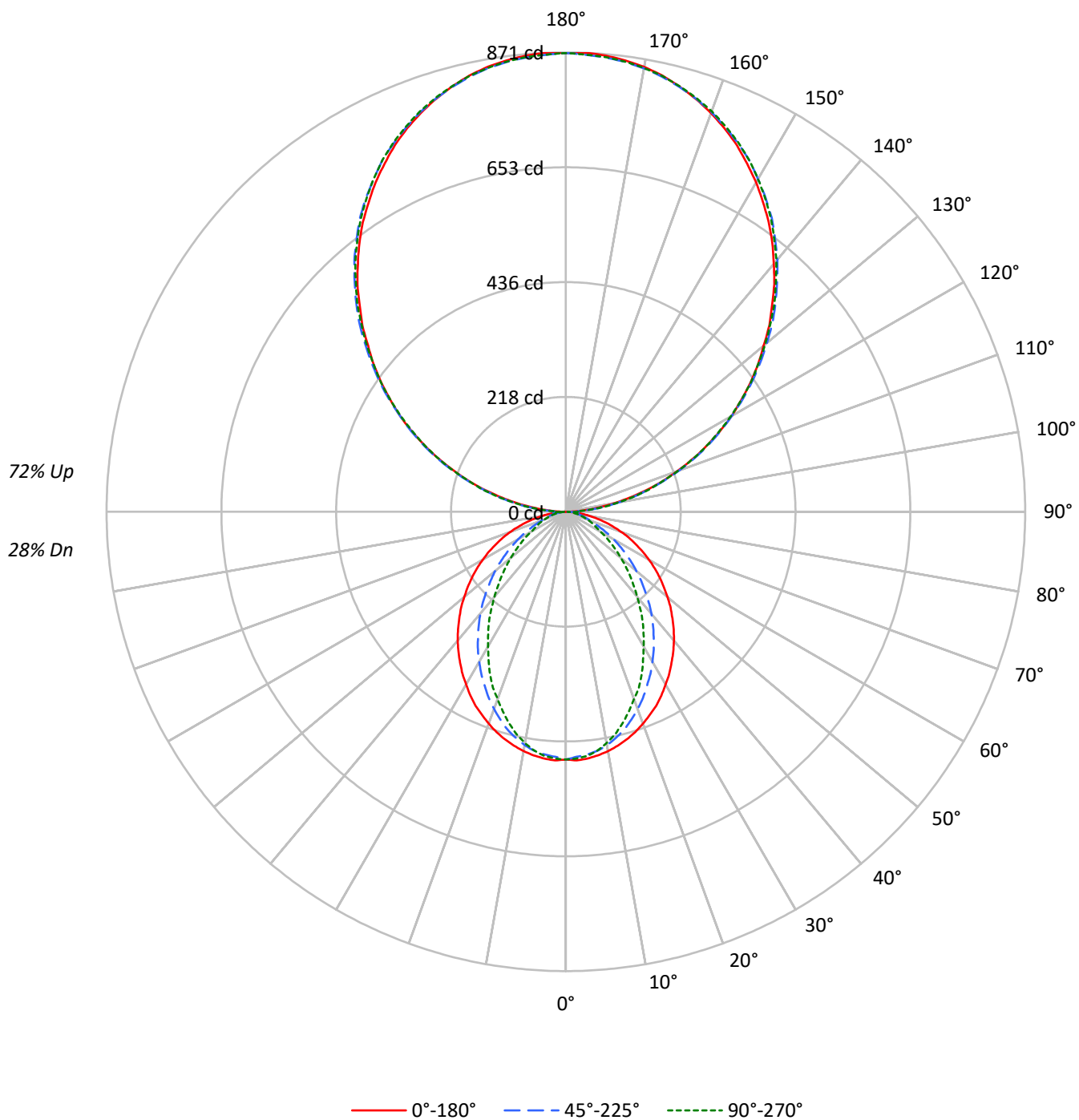
Lumens per Lamp: N/A
Luminaire Lumens: 3400.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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					0
RW	70	50	30	10	70	50	30	10	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	36	36	28
1	93	89	85	82	83	80	77	74	63	61	59	47	46	45	32	32	31	31	31	25
2	85	78	72	67	76	70	65	61	55	52	49	42	39	38	29	28	27	27	27	21
3	78	69	62	56	69	62	56	51	49	45	42	37	34	32	26	24	23	23	23	18
4	71	61	54	48	64	55	49	44	44	39	36	33	30	28	23	21	20	20	20	16
5	65	54	47	41	58	49	42	38	39	34	31	30	27	24	21	19	18	18	18	14
6	60	49	41	36	54	44	37	33	35	30	27	27	24	21	19	17	16	16	16	12
7	56	44	36	31	50	40	33	29	32	27	24	24	21	19	18	15	14	14	14	11
8	51	40	32	27	46	36	30	25	29	24	21	22	19	17	16	14	13	13	13	10
9	48	36	29	24	43	33	27	22	27	22	19	21	17	15	15	13	11	11	11	9
10	45	33	26	22	40	30	24	20	24	20	17	19	16	14	14	12	10	10	10	8

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.0	1.3
10°-20°	120.8	3.6
20°-30°	169.7	5.0
30°-40°	184.9	5.4
40°-50°	170.0	5.0
50°-60°	133.5	3.9
60°-70°	86.9	2.6
70°-80°	44.7	1.3
80°-90°	13.9	0.4
90°-100°	53.8	1.6
100°-110°	171.0	5.0
110°-120°	292.7	8.6
120°-130°	384.9	11.3
130°-140°	432.0	12.7
140°-150°	423.7	12.5
150°-160°	355.4	10.5
160°-170°	235.7	6.9
170°-180°	82.4	2.4
0°-30°	334.5	9.8
0°-40°	519.5	15.3
0°-60°	823.0	24.2
0°-90°	968.5	28.5
90°-120°	517.5	15.2
90°-150°	1758.1	51.7
90°-180°	2432.0	71.5
0°-180°	3400.0	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	10	26	24	25	3
95°	38	46	47	47	46	43
105°	158	160	162	163	163	167
115°	294	298	296	296	294	290
125°	427	434	432	429	429	382
135°	553	561	562	562	559	427
145°	671	676	680	681	678	419
155°	767	769	771	775	773	353
165°	834	834	834	839	835	235
175°	868	866	865	870	865	82
180°	870	870	870	870	870	

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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°	0.7	9.5	25.7	24.2	25.0
92.5°	16.1	22.0	22.8	23.5	23.5
95°	38.2	45.5	47.0	47.0	45.5
97.5°	63.9	70.5	73.4	73.4	73.4
100°	93.2	99.1	101.3	101.3	100.5
102.5°	124.0	128.4	131.4	132.1	131.4
105°	157.8	160.0	161.5	162.9	162.9
107.5°	191.6	194.5	194.5	195.2	191.6
110°	223.8	228.3	228.3	228.3	226.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	259.1	263.5	262.7	260.5	259.1
115°	293.6	298.0	296.5	295.8	293.6
117.5°	328.1	333.9	330.3	328.1	325.9
120°	362.6	368.4	362.6	362.6	360.4
122.5°	394.1	401.5	397.8	395.6	394.1
125°	427.1	433.8	431.5	429.3	428.6
127.5°	459.4	467.5	464.6	461.6	459.4
130°	489.5	499.1	497.6	496.1	493.2
132.5°	523.3	530.6	531.4	527.7	525.5
135°	552.6	560.7	562.2	561.5	559.3
137.5°	584.9	591.5	593.0	592.3	589.3
140°	613.6	620.2	623.8	623.8	620.9
142.5°	642.9	649.5	651.7	652.5	649.5
145°	670.8	675.9	680.4	681.1	678.1
147.5°	695.8	702.4	705.3	706.8	703.8
150°	721.4	725.9	728.8	731.0	728.8
152.5°	744.2	748.6	752.3	755.2	752.3
155°	767.0	769.2	771.4	775.0	772.8
157.5°	786.8	788.2	789.7	794.8	791.2
160°	804.4	805.9	806.6	811.0	808.1
162.5°	820.5	820.5	821.3	826.4	822.7
165°	834.5	833.7	833.7	838.9	835.2
167.5°	847.0	844.7	844.7	849.9	846.2
170°	856.5	854.3	853.6	858.7	854.3
172.5°	863.1	860.9	860.2	865.3	860.9
175°	868.2	866.0	864.6	869.7	865.3
177.5°	871.2	869.0	867.5	871.9	867.5
180°	869.7	869.7	869.7	869.7	869.7

(END OF REPORT)