

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: P999624

Luminaire Tested: SA2XXRDIP-B290D725UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P999624
REPORT IS A COMBINATION OF REPORTS P988177 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-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

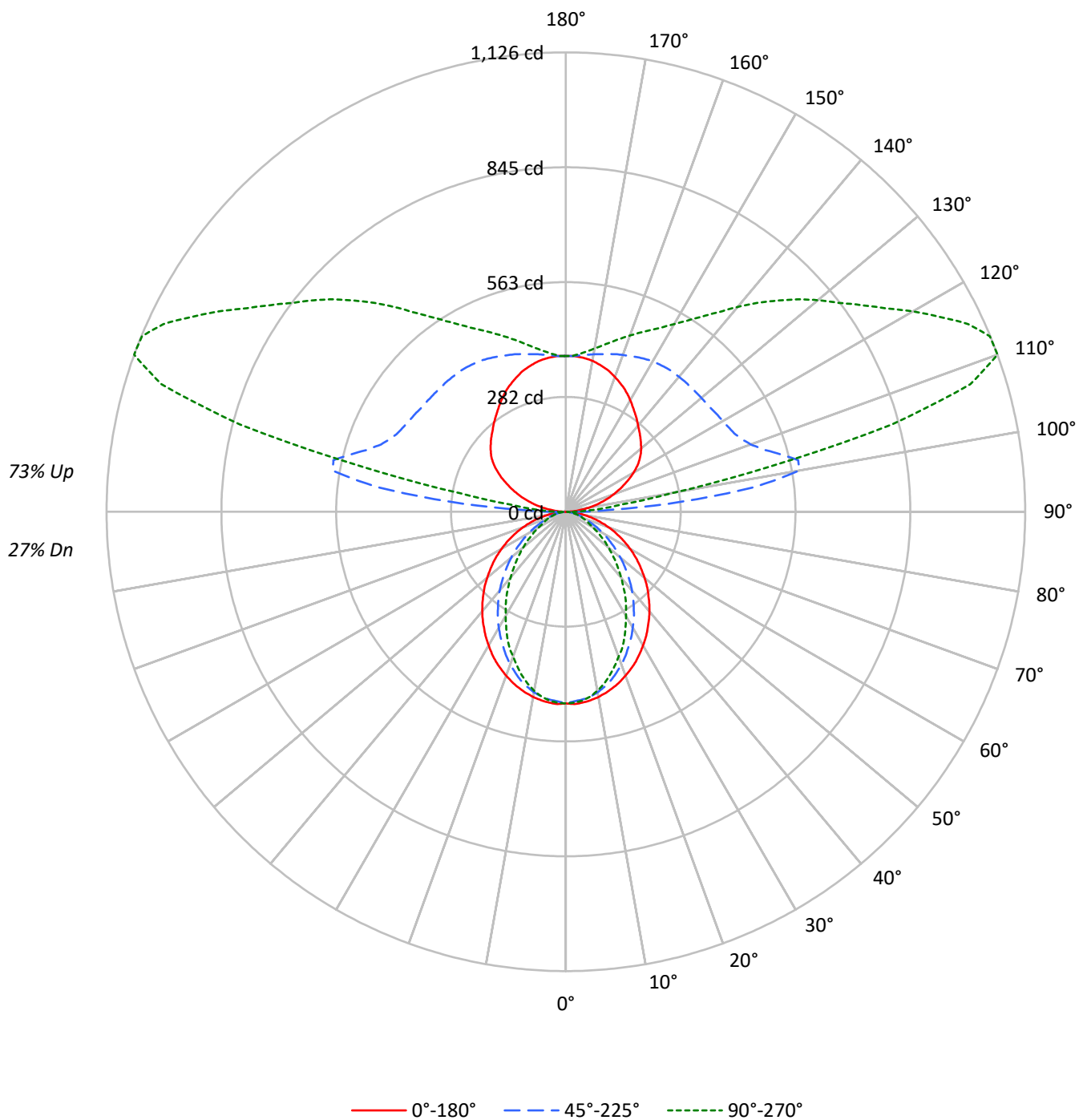
Lumens per Lamp: N/A
Luminaire Lumens: 3630.0 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	70	70	70	52	52	52	35	35	35
1	93	89	85	82	83	79	76	74	62	60	58	46	45	43	31	30	30
2	85	78	72	67	75	70	65	61	54	51	48	41	38	37	28	26	25
3	77	68	62	56	69	61	56	51	48	44	41	36	33	31	25	23	22
4	71	61	53	48	63	55	48	43	43	38	35	32	29	27	22	20	19
5	65	54	46	41	58	49	42	37	38	34	30	29	26	23	20	18	17
6	60	48	41	35	53	44	37	32	35	30	26	26	23	21	18	16	15
7	55	44	36	31	49	39	33	28	31	27	23	24	21	18	17	15	13
8	51	40	32	27	46	36	29	25	29	24	21	22	19	16	15	13	12
9	48	36	29	24	43	33	26	22	26	22	18	20	17	15	14	12	11
10	44	33	26	21	40	30	24	20	24	20	16	18	15	13	13	11	10

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	1.2
10°-20°	120.8	3.3
20°-30°	169.7	4.7
30°-40°	184.9	5.1
40°-50°	170.0	4.7
50°-60°	133.5	3.7
60°-70°	86.9	2.4
70°-80°	44.7	1.2
80°-90°	13.9	0.4
90°-100°	154.7	4.3
100°-110°	523.2	14.4
110°-120°	549.9	15.1
120°-130°	452.2	12.5
130°-140°	363.4	10.0
140°-150°	274.5	7.6
150°-160°	193.0	5.3
160°-170°	113.6	3.1
170°-180°	37.0	1.0
0°-30°	334.5	9.2
0°-40°	519.5	14.3
0°-60°	823.0	22.7
0°-90°	968.5	26.7
90°-120°	1227.9	33.8
90°-150°	2318.0	63.9
90°-180°	2662.0	73.3
0°-180°	3630.0	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	25	24	24	3
95°	26	63	288	109	84	27
105°	90	135	544	972	827	95
115°	158	199	455	939	1089	157
125°	220	261	438	761	883	196
135°	258	308	432	639	732	200
145°	295	339	430	534	584	185
155°	336	362	418	472	491	154
165°	366	377	400	424	431	103
175°	381	381	385	390	388	36
180°	382	382	382	382	382	

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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	9.9	25.0	23.8	24.2
92.5°	11.0	34.8	113.1	52.2	44.8
95°	25.7	63.1	287.8	108.6	83.7
97.5°	38.2	83.3	469.1	218.0	140.2
100°	56.5	102.0	580.0	434.2	262.8
102.5°	73.4	119.0	583.6	734.2	512.4
105°	89.6	135.1	544.0	972.4	827.4
107.5°	107.2	151.2	507.3	1058.6	1039.5
110°	124.8	167.8	482.3	1044.7	1126.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.0	183.5	466.2	997.3	1124.7
115°	157.8	199.3	455.2	939.3	1088.7
117.5°	175.5	215.1	449.3	883.9	1034.4
120°	191.6	230.5	444.2	834.4	982.3
122.5°	207.0	246.3	441.2	795.8	928.0
125°	220.2	260.6	437.5	761.0	883.2
127.5°	231.3	274.2	435.3	731.2	841.3
130°	240.8	286.3	433.9	701.1	806.8
132.5°	249.6	298.0	433.1	669.9	770.8
135°	258.4	308.4	432.4	639.4	731.9
137.5°	266.5	317.2	432.4	608.6	694.5
140°	276.0	325.2	431.7	581.4	655.6
142.5°	285.6	331.8	431.7	555.4	616.7
145°	295.1	339.2	430.2	534.0	584.4
147.5°	305.4	345.0	428.0	515.4	555.7
150°	315.7	350.9	425.8	499.2	530.8
152.5°	326.0	356.8	422.1	485.6	509.5
155°	335.5	362.3	417.7	472.4	491.1
157.5°	343.6	366.7	413.3	459.9	475.0
160°	351.7	371.1	408.9	447.4	459.6
162.5°	359.7	374.4	405.2	435.7	444.9
165°	365.6	376.6	400.1	424.4	430.9
167.5°	370.7	378.8	395.7	414.0	417.7
170°	375.9	379.9	392.0	404.5	406.0
172.5°	378.8	381.0	387.6	396.0	396.4
175°	381.0	381.4	384.7	389.5	388.4
177.5°	382.5	381.8	381.8	384.7	382.5
180°	381.8	381.8	381.8	381.8	381.8

(END OF REPORT)