

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: P999543

Luminaire Tested: SA2XXRDIP-B290D330UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P999543
REPORT IS A COMBINATION OF REPORTS P988096 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B290D330UB50-4F0-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

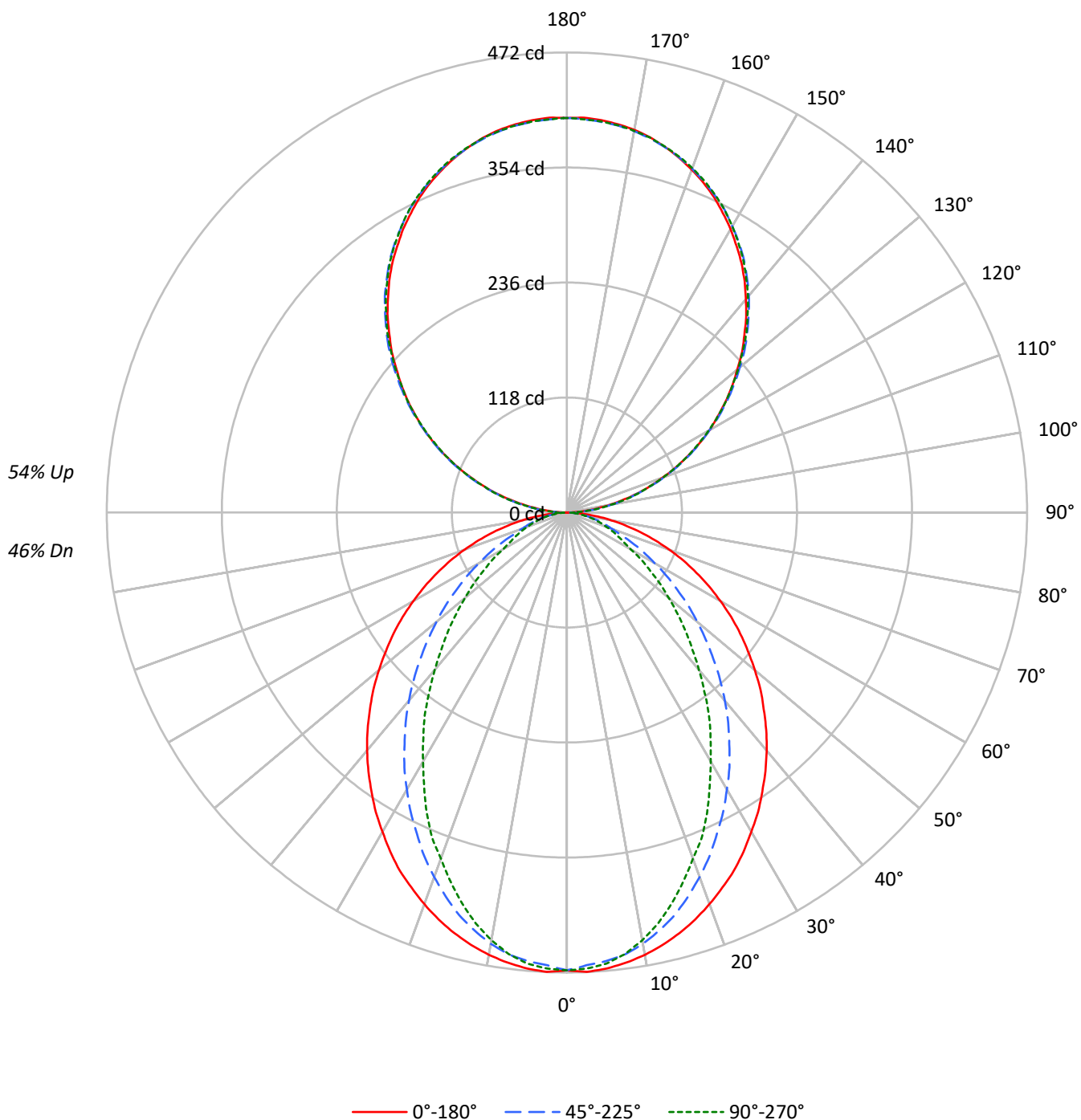
Lumens per Lamp: N/A
Luminaire Lumens: 2099.0 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 22.3
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	50	30	10
RCR																				
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	53	53	53			46
1	97	93	89	86	89	86	83	80	72	70	67	59	57	56	47	46	45			40
2	89	82	76	71	81	75	70	66	63	60	57	52	50	47	42	40	39			34
3	81	72	65	60	75	67	61	56	56	52	48	47	43	41	38	35	33			29
4	75	64	57	51	68	59	53	48	50	45	41	42	38	35	34	31	29			26
5	69	58	50	44	63	53	46	41	45	40	36	38	34	31	31	28	26			22
6	63	52	44	38	58	48	41	36	41	36	32	34	30	27	28	25	23			20
7	59	47	39	34	54	43	37	32	37	32	28	31	27	24	26	23	20			18
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	18			16
9	51	39	32	27	47	36	30	25	31	26	22	26	22	20	22	19	17			15
10	48	36	29	24	44	33	27	23	29	24	20	25	21	18	20	17	15			13

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	2.1
10°-20°	120.8	5.8
20°-30°	169.7	8.1
30°-40°	184.9	8.8
40°-50°	170.0	8.1
50°-60°	133.5	6.4
60°-70°	86.9	4.1
70°-80°	44.7	2.1
80°-90°	12.6	0.6
90°-100°	25.0	1.2
100°-110°	79.6	3.8
110°-120°	136.2	6.5
120°-130°	179.2	8.5
130°-140°	201.1	9.6
140°-150°	197.2	9.4
150°-160°	165.4	7.9
160°-170°	109.7	5.2
170°-180°	38.3	1.8
0°-30°	334.5	15.9
0°-40°	519.5	24.7
0°-60°	823.0	39.2
0°-90°	967.2	46.1
90°-120°	240.9	11.5
90°-150°	818.4	39.0
90°-180°	1132.0	53.9
0°-180°	2099.0	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°	0	4	12	11	12	2
95°	18	21	22	22	21	20
105°	74	74	75	76	76	78
115°	137	139	138	138	137	135
125°	199	202	201	200	200	178
135°	257	261	262	261	260	199
145°	312	315	317	317	316	195
155°	357	358	359	361	360	164
165°	388	388	388	390	389	110
175°	404	403	402	405	403	38
180°	405	405	405	405	405	

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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°	0.3	4.4	12.0	11.3	11.6
92.5°	7.5	10.2	10.6	10.9	10.9
95°	17.8	21.2	21.9	21.9	21.2
97.5°	29.7	32.8	34.2	34.2	34.2
100°	43.4	46.1	47.1	47.1	46.8
102.5°	57.7	59.8	61.2	61.5	61.2
105°	73.5	74.5	75.2	75.8	75.8
107.5°	89.2	90.5	90.5	90.9	89.2
110°	104.2	106.2	106.2	106.2	105.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	120.6	122.6	122.3	121.3	120.6
115°	136.7	138.7	138.0	137.7	136.7
117.5°	152.7	155.4	153.7	152.7	151.7
120°	168.8	171.5	168.8	168.8	167.7
122.5°	183.5	186.9	185.2	184.1	183.5
125°	198.8	201.9	200.9	199.9	199.5
127.5°	213.9	217.6	216.3	214.9	213.9
130°	227.9	232.3	231.6	230.9	229.6
132.5°	243.6	247.0	247.3	245.6	244.6
135°	257.3	261.0	261.7	261.4	260.3
137.5°	272.3	275.4	276.0	275.7	274.3
140°	285.6	288.7	290.4	290.4	289.0
142.5°	299.3	302.3	303.4	303.7	302.3
145°	312.3	314.6	316.7	317.0	315.7
147.5°	323.9	326.9	328.3	329.0	327.6
150°	335.8	337.9	339.2	340.3	339.2
152.5°	346.4	348.5	350.2	351.5	350.2
155°	357.0	358.0	359.1	360.8	359.7
157.5°	366.2	366.9	367.6	370.0	368.3
160°	374.4	375.1	375.5	377.5	376.1
162.5°	381.9	381.9	382.3	384.7	383.0
165°	388.4	388.1	388.1	390.5	388.8
167.5°	394.2	393.2	393.2	395.6	393.9
170°	398.7	397.7	397.3	399.7	397.7
172.5°	401.8	400.7	400.4	402.8	400.7
175°	404.2	403.1	402.4	404.8	402.8
177.5°	405.5	404.5	403.8	405.9	403.8
180°	404.8	404.8	404.8	404.8	404.8

(END OF REPORT)