

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: P999577

Luminaire Tested: SA2XXRDIP-B290D530UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P999577
REPORT IS A COMBINATION OF REPORTS P988130 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B290D530UB40-4F0-XX-W2A-F1
Description: Define 2 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

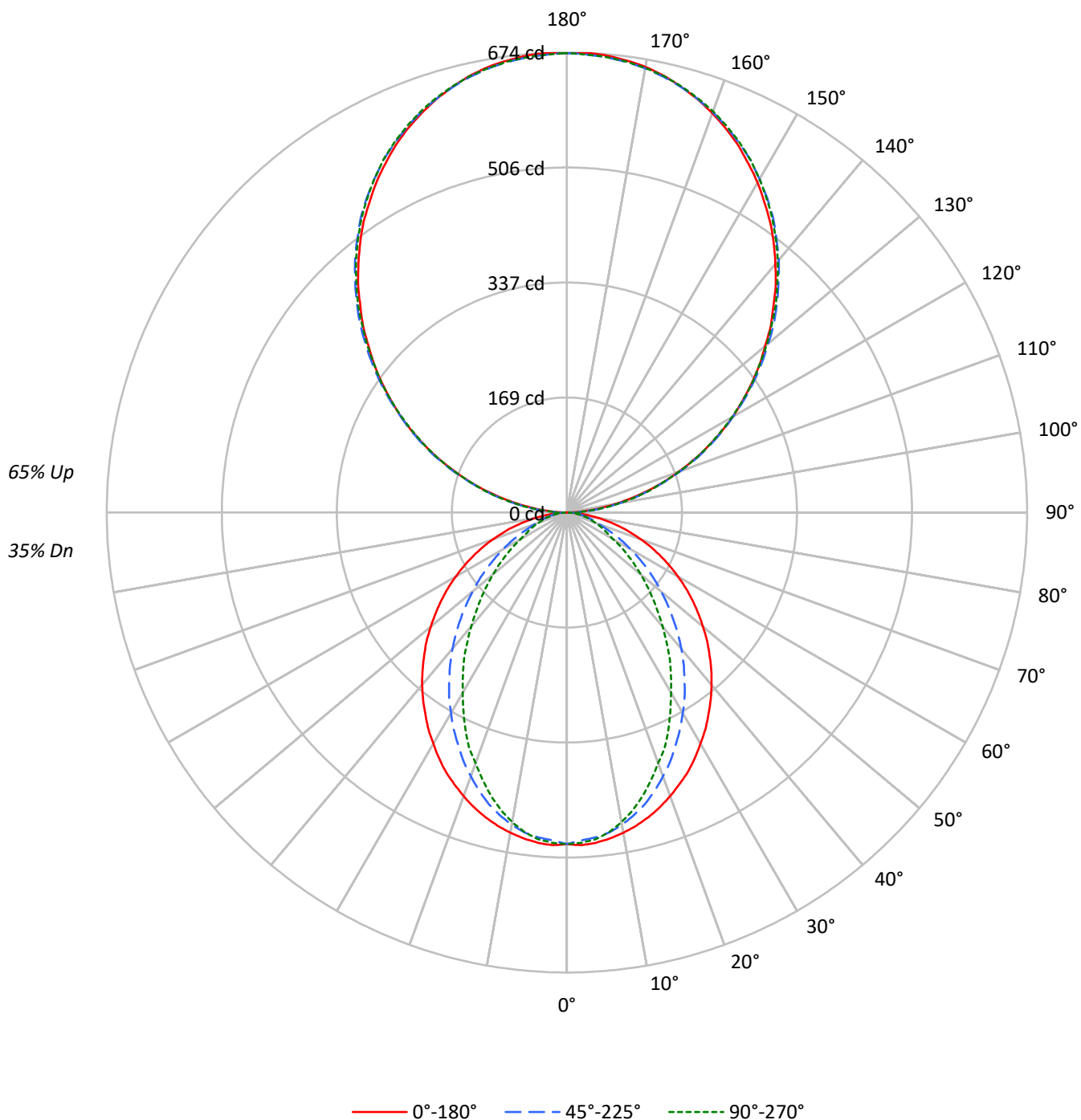
Lumens per Lamp: N/A
Luminaire Lumens: 2883.0 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 28.4
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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42
1	95	91	87	84	85	82	79	76	66	64	62	51	50	49	38	37	36
2	86	79	74	69	78	72	67	63	58	55	52	45	43	41	34	32	31
3	79	70	63	58	71	64	58	53	52	47	44	40	38	35	30	28	27
4	72	62	55	49	65	57	50	45	46	41	38	36	33	30	27	25	23
5	67	55	48	42	60	51	44	39	41	36	33	33	29	26	24	22	20
6	61	50	42	36	55	45	39	34	37	32	28	30	26	23	22	20	18
7	57	45	37	32	51	41	34	30	34	29	25	27	23	21	20	18	16
8	53	41	33	28	48	37	31	26	31	26	22	25	21	18	19	16	15
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	17	15	13
10	46	34	27	23	41	31	25	21	26	21	18	21	17	15	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7688	7688	7688
5°	7701	7315	7261
10°	7625	6937	6709
15°	7521	6492	6080
20°	7382	5987	5422
25°	7241	5467	4820
30°	7049	4961	4163
35°	6862	4450	3598
40°	6673	3950	3016
45°	6452	3432	2509
50°	6222	2934	2043
55°	5985	2435	1621
60°	5708	1947	1226
65°	5393	1485	997
70°	5006	1077	793
75°	4526	822	607
80°	3824	556	406
85°	2670	256	198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6452 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.5	1.6
10°-20°	125.0	4.3
20°-30°	175.5	6.1
30°-40°	191.3	6.6
40°-50°	175.8	6.1
50°-60°	138.0	4.8
60°-70°	89.9	3.1
70°-80°	46.3	1.6
80°-90°	13.7	0.5
90°-100°	41.6	1.4
100°-110°	132.4	4.6
110°-120°	226.5	7.9
120°-130°	297.9	10.3
130°-140°	334.4	11.6
140°-150°	327.9	11.4
150°-160°	275.1	9.5
160°-170°	182.4	6.3
170°-180°	63.8	2.2
0°-30°	346.0	12.0
0°-40°	537.2	18.6
0°-60°	851.1	29.5
0°-90°	1000.9	34.7
90°-120°	400.5	13.9
90°-150°	1360.8	47.2
90°-180°	1882.0	65.3
0°-180°	2883.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	486	486	486	486	486	
5°	486	484	478	482	480	46
15°	462	457	442	434	430	130
25°	419	405	376	358	352	193
35°	361	339	300	272	263	226
45°	295	266	220	189	178	228
55°	225	190	143	116	108	201
65°	152	116	76	62	60	150
75°	81	50	35	32	32	86
85°	19	10	8	8	8	22
90°	1	7	20	19	19	3
95°	30	35	36	36	35	33
105°	122	124	125	126	126	129
115°	227	231	230	229	227	225
125°	331	336	334	332	332	295
135°	428	434	435	435	433	331
145°	519	523	527	527	525	324
155°	594	595	597	600	598	273
165°	646	645	645	649	646	182
175°	672	670	669	673	670	64
180°	673	673	673	673	673	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	485.7	485.7	485.7	485.7	485.7
2.5°	487.9	485.7	480.9	485.3	484.4
5°	485.7	483.5	477.8	481.8	480.5
7.5°	481.8	479.2	473.0	474.8	472.6
10°	476.5	473.4	464.6	463.3	460.7
12.5°	469.9	466.0	454.1	451.5	446.6
15°	462.0	457.2	442.2	433.9	429.5
17.5°	452.8	445.7	427.3	417.6	410.6
20°	442.2	433.4	411.5	400.5	390.8
22.5°	430.8	420.7	395.2	380.2	373.7
25°	419.4	405.3	376.3	358.3	351.7
27.5°	405.7	390.8	358.7	338.0	327.9
30°	391.2	374.5	339.4	316.9	305.1
32.5°	377.2	356.9	320.9	294.5	283.5
35°	361.3	338.9	300.2	272.5	262.9
37.5°	346.0	321.8	280.9	250.6	239.6
40°	329.7	303.3	260.7	229.5	218.0
42.5°	313.0	284.9	240.5	207.9	196.9
45°	295.4	266.0	219.8	188.6	178.0
47.5°	278.7	247.5	200.0	168.8	159.1
50°	260.2	229.0	180.7	150.3	141.1
52.5°	242.2	209.2	162.2	133.2	124.8
55°	224.6	190.3	142.9	116.5	108.1
57.5°	206.6	171.4	125.7	101.1	94.1
60°	188.1	153.0	107.7	85.3	78.2
62.5°	170.1	135.0	92.3	71.2	67.7
65°	151.7	116.1	76.5	61.5	60.2
67.5°	134.1	98.5	61.5	54.1	52.8
70°	115.6	81.3	51.0	46.6	44.8
72.5°	98.0	65.5	42.6	39.1	38.2
75°	80.9	50.1	35.2	32.1	31.7
77.5°	63.7	35.6	27.7	25.9	25.1
80°	47.9	25.5	21.1	19.3	19.3
82.5°	33.4	17.1	14.5	13.6	13.6
85°	18.9	9.7	8.4	8.4	8.4
87.5°	7.0	3.5	3.5	3.1	3.1
90°	0.6	7.4	19.9	18.7	19.3
92.5°	12.5	17.0	17.6	18.2	18.2
95°	29.5	35.2	36.4	36.4	35.2
97.5°	49.4	54.5	56.8	56.8	56.8
100°	72.1	76.7	78.4	78.4	77.8
102.5°	96.0	99.4	101.7	102.3	101.7
105°	122.1	123.8	125.0	126.1	126.1
107.5°	148.3	150.5	150.5	151.1	148.3
110°	173.3	176.7	176.7	176.7	175.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	200.5	203.9	203.4	201.7	200.5
115°	227.2	230.6	229.5	228.9	227.2
117.5°	253.9	258.5	255.6	253.9	252.2
120°	280.6	285.2	280.6	280.6	278.9
122.5°	305.1	310.7	307.9	306.2	305.1
125°	330.6	335.7	334.0	332.3	331.8
127.5°	355.6	361.9	359.6	357.3	355.6
130°	378.9	386.3	385.2	384.0	381.8
132.5°	405.0	410.7	411.3	408.5	406.7
135°	427.8	434.0	435.2	434.6	432.9
137.5°	452.8	457.9	459.0	458.4	456.2
140°	474.9	480.0	482.9	482.9	480.6
142.5°	497.6	502.8	504.5	505.0	502.8
145°	519.2	523.2	526.6	527.2	524.9
147.5°	538.5	543.7	545.9	547.1	544.8
150°	558.4	561.8	564.1	565.8	564.1
152.5°	576.0	579.4	582.3	584.6	582.3
155°	593.6	595.4	597.1	599.9	598.2
157.5°	609.0	610.1	611.3	615.2	612.4
160°	622.6	623.8	624.3	627.7	625.5
162.5°	635.1	635.1	635.7	639.7	636.8
165°	645.9	645.3	645.3	649.3	646.5
167.5°	655.6	653.9	653.9	657.8	655.0
170°	663.0	661.3	660.7	664.7	661.3
172.5°	668.1	666.4	665.8	669.8	666.4
175°	672.0	670.3	669.2	673.2	669.8
177.5°	674.3	672.6	671.5	674.9	671.5
180°	673.2	673.2	673.2	673.2	673.2

(END OF REPORT)