

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: P1012680

Luminaire Tested: S123RDIP-B560D805UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012680
REPORT IS A COMBINATION OF REPORTS P993499 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B560D805UB30-4F0-XX-W2A-F1
Description: Define 3 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

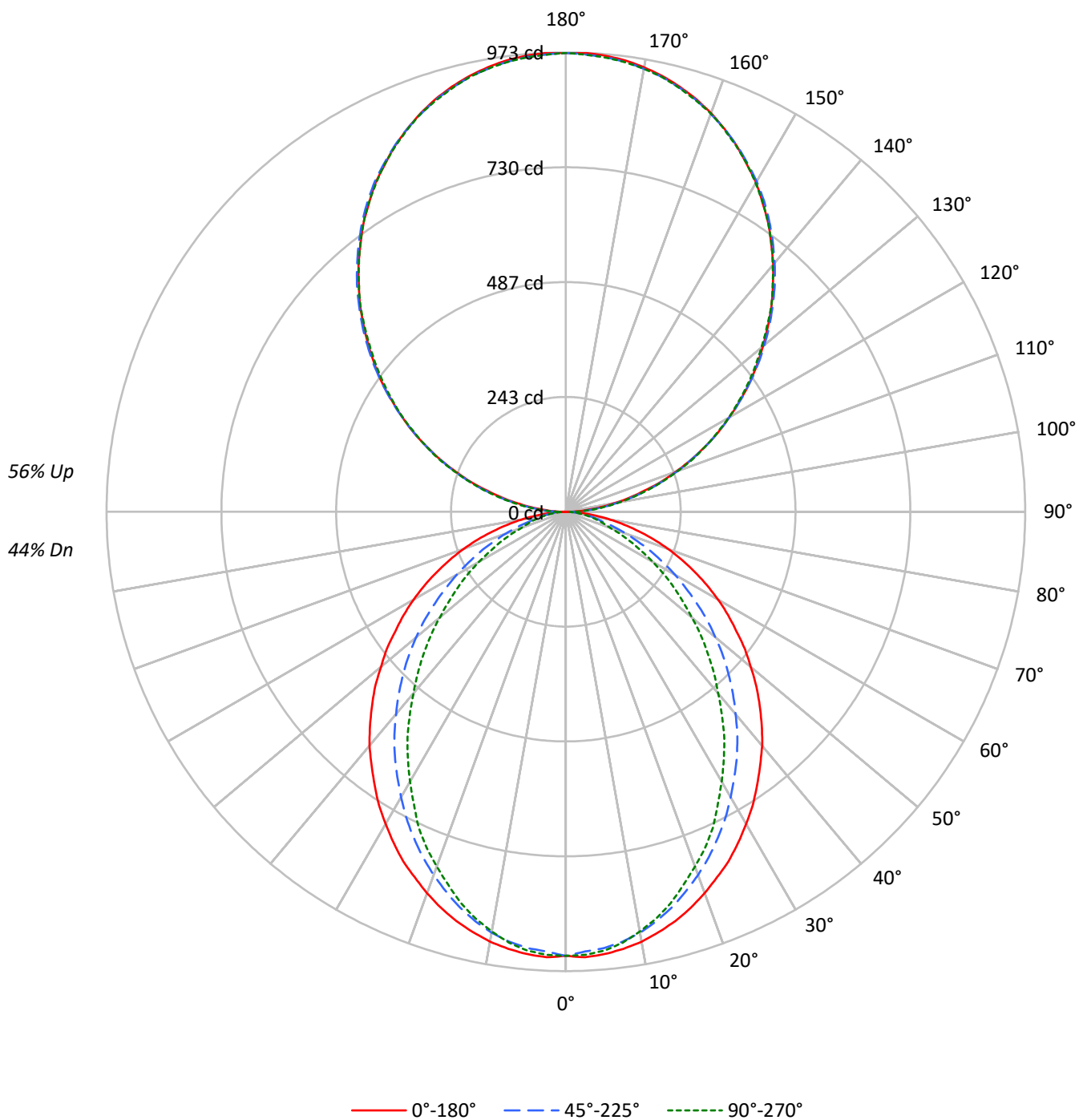
Lumens per Lamp: N/A
Luminaire Lumens: 4820.0 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 45.1
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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	97	93	89	85	88	85	82	79	71	68	66	57	56	54	45	44	43
2	88	81	75	70	81	75	69	65	62	58	55	51	48	46	40	38	37
3	81	72	64	59	74	66	60	55	55	51	47	45	42	39	36	34	32
4	74	63	56	50	67	58	52	47	49	44	40	40	37	34	32	30	28
5	68	57	49	43	62	52	45	40	44	39	35	36	32	29	29	26	24
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	26	24	21
7	58	46	38	33	53	43	36	31	36	31	27	30	26	23	24	21	19
8	54	42	34	29	49	39	32	27	33	28	24	27	23	20	22	19	17
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	21	18	16
10	47	35	28	23	43	32	26	22	28	23	19	23	19	17	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10125	10125	10125
5°	10141	9766	9740
10°	10061	9399	9214
15°	9930	8946	8638
20°	9759	8451	7994
25°	9583	7939	7384
30°	9356	7393	6663
35°	9123	6857	6006
40°	8903	6275	5281
45°	8621	5706	4629
50°	8311	5098	3953
55°	7989	4447	3335
60°	7682	3780	2706
65°	7284	3096	2113
70°	6785	2341	1510
75°	6063	1586	1196
80°	5179	1103	838
85°	3881	596	439

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8621 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	1.8
10°-20°	246.0	5.1
20°-30°	354.2	7.3
30°-40°	398.8	8.3
40°-50°	381.5	7.9
50°-60°	312.3	6.5
60°-70°	210.6	4.4
70°-80°	105.6	2.2
80°-90°	29.7	0.6
90°-100°	62.6	1.3
100°-110°	189.4	3.9
110°-120°	322.4	6.7
120°-130°	424.1	8.8
130°-140°	476.7	9.9
140°-150°	468.7	9.7
150°-160°	394.6	8.2
160°-170°	262.7	5.4
170°-180°	92.0	1.9
0°-30°	688.6	14.3
0°-40°	1087.4	22.6
0°-60°	1781.2	37.0
0°-90°	2127.1	44.1
90°-120°	574.3	11.9
90°-150°	1943.8	40.3
90°-180°	2693.0	55.9
0°-180°	4820.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	941	941	941	941	941	
5°	941	937	928	934	933	89
15°	897	889	867	864	858	253
25°	816	797	762	746	738	375
35°	706	679	632	599	585	442
45°	580	546	488	444	426	448
55°	441	404	339	294	279	395
65°	301	259	200	162	154	298
75°	159	123	81	73	72	170
85°	40	24	21	20	20	44
90°	1	8	18	21	23	6
95°	45	50	56	60	60	50
105°	172	173	180	180	182	184
115°	324	327	325	326	325	321
125°	475	477	476	473	470	424
135°	616	621	620	617	615	475
145°	747	749	751	750	747	467
155°	856	856	857	860	854	394
165°	932	930	930	934	929	263
175°	970	967	967	971	966	92
180°	972	972	972	972	972	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	940.6	940.6	940.6	940.6	940.6
2.5°	944.4	941.4	932.2	940.6	939.1
5°	940.6	936.8	927.6	934.5	933.0
7.5°	933.7	929.9	918.5	923.1	920.8
10°	924.6	919.2	905.5	906.3	902.5
12.5°	911.6	905.5	888.0	887.2	882.6
15°	897.1	888.7	867.4	863.6	858.2
17.5°	879.6	870.4	843.7	836.1	828.5
20°	859.7	847.5	818.5	808.6	799.5
22.5°	837.6	823.1	791.8	778.9	770.5
25°	816.3	797.2	762.1	746.1	737.7
27.5°	790.3	769.7	731.6	710.2	697.3
30°	763.6	740.7	698.0	672.1	659.9
32.5°	736.9	710.2	664.5	635.5	622.5
35°	706.4	678.9	631.6	598.8	585.1
37.5°	675.9	646.1	596.6	559.9	543.2
40°	646.9	613.3	559.2	519.5	502.0
42.5°	614.1	580.5	524.1	479.8	464.6
45°	580.5	546.2	487.5	444.0	425.7
47.5°	547.7	509.6	451.6	404.3	388.3
50°	511.1	475.3	413.5	366.2	348.6
52.5°	478.3	438.6	377.6	328.0	312.8
55°	440.9	403.6	338.7	294.5	279.2
57.5°	407.4	366.9	301.3	259.4	246.4
60°	372.3	330.3	267.0	225.8	212.8
62.5°	337.2	295.2	231.9	193.8	180.0
65°	301.3	259.4	199.9	162.5	154.1
67.5°	265.5	222.8	164.8	136.6	127.4
70°	230.4	189.2	135.8	109.1	100.7
72.5°	195.3	154.9	107.6	87.0	84.7
75°	159.4	122.8	80.9	73.2	71.7
77.5°	126.6	93.1	63.3	58.7	57.2
80°	95.4	64.1	48.1	45.8	44.2
82.5°	65.6	39.7	34.3	32.0	32.0
85°	40.4	23.6	21.4	19.8	19.8
87.5°	18.3	9.9	9.9	9.2	8.4
90°	0.8	8.4	18.3	21.4	22.9
92.5°	22.9	27.5	32.1	34.4	32.8
95°	45.0	50.4	56.5	59.6	59.6
97.5°	74.1	77.9	82.5	86.3	85.5
100°	103.8	108.4	112.2	114.5	116.0
102.5°	138.2	140.5	145.8	148.1	147.3
105°	171.8	173.3	180.2	180.2	181.7
107.5°	211.5	212.2	215.3	217.6	216.8
110°	248.1	249.7	251.2	254.2	252.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	286.3	287.1	287.1	290.9	290.9
115°	324.5	326.8	325.2	326.0	325.2
117.5°	363.4	364.2	362.6	362.6	360.4
120°	399.3	403.9	400.1	399.3	397.8
122.5°	436.7	439.8	438.2	435.9	433.7
125°	474.9	477.2	475.6	472.6	469.5
127.5°	510.0	514.6	513.1	508.5	505.4
130°	545.1	551.2	548.9	545.9	540.5
132.5°	580.2	586.3	584.8	581.0	577.2
135°	616.1	620.7	619.9	616.9	615.4
137.5°	648.9	652.8	655.1	651.2	648.9
140°	683.3	687.1	687.9	687.1	681.8
142.5°	714.6	718.4	720.0	719.2	715.4
145°	747.4	749.0	751.3	750.5	747.4
147.5°	775.7	778.7	781.0	781.0	776.4
150°	805.5	807.0	808.5	808.5	803.9
152.5°	829.9	832.2	832.9	834.5	830.7
155°	855.8	855.8	856.6	859.7	854.3
157.5°	878.0	877.2	878.0	881.0	876.5
160°	898.6	897.1	897.1	900.9	897.8
162.5°	916.9	914.6	915.4	919.2	913.9
165°	932.2	929.9	929.9	934.5	929.1
167.5°	945.2	942.1	942.9	947.5	942.9
170°	955.9	952.8	952.8	958.2	952.8
172.5°	964.3	961.2	961.2	965.8	960.4
175°	969.6	966.6	966.6	971.1	965.8
177.5°	972.7	969.6	969.6	974.2	968.8
180°	971.9	971.9	971.9	971.9	971.9

(END OF REPORT)