

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: P1012681

Luminaire Tested: S123RDIP-B560D805UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012681
REPORT IS A COMBINATION OF REPORTS P993500 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-F4
Description: Define 3 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

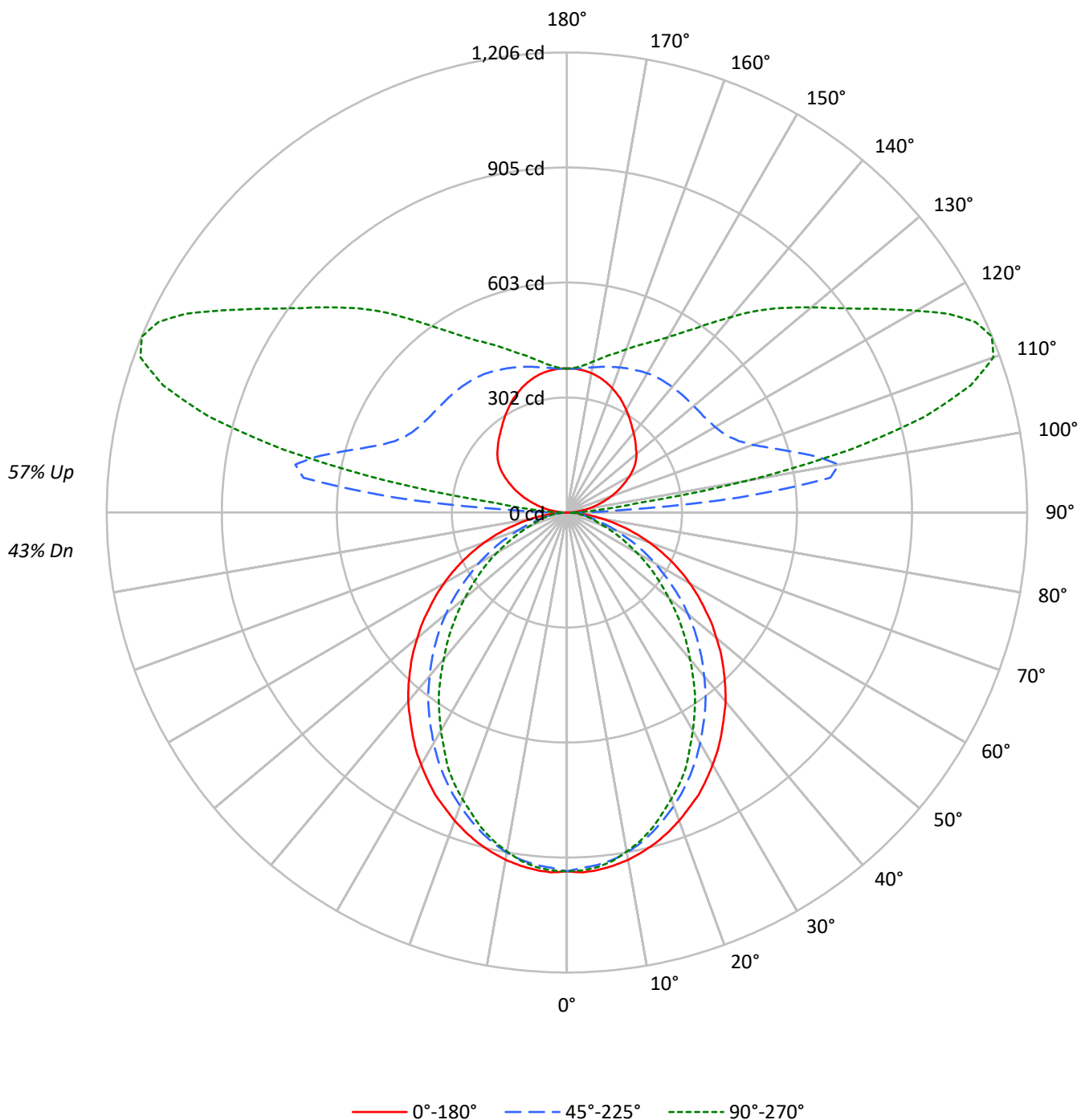
Lumens per Lamp: N/A
Luminaire Lumens: 4970.6 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50
1	96	92	89	85	88	84	81	78	70	68	66	57	55	54	44	43	42
2	88	81	75	70	80	74	69	65	62	58	55	50	47	45	39	38	36
3	80	71	64	59	73	65	59	54	55	50	46	44	41	39	35	33	31
4	74	63	56	50	67	58	51	46	49	44	40	40	36	33	31	29	27
5	68	56	49	43	62	52	45	40	44	38	34	36	32	29	28	26	24
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	26	23	21
7	58	46	38	33	53	42	35	31	36	30	26	29	25	23	24	21	19
8	54	42	34	29	49	38	32	27	33	27	24	27	23	20	22	19	17
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	20	17	15
10	47	35	28	23	43	32	26	22	27	22	19	23	19	16	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	4.9
20°-30°	354.2	7.1
30°-40°	398.8	8.0
40°-50°	381.5	7.7
50°-60°	312.3	6.3
60°-70°	210.6	4.2
70°-80°	105.6	2.1
80°-90°	29.7	0.6
90°-100°	214.3	4.3
100°-110°	599.0	12.1
110°-120°	584.1	11.8
120°-130°	465.1	9.4
130°-140°	367.1	7.4
140°-150°	273.9	5.5
150°-160°	191.1	3.8
160°-170°	112.3	2.3
170°-180°	36.5	0.7
0°-30°	688.6	13.9
0°-40°	1087.4	21.9
0°-60°	1781.2	35.8
0°-90°	2127.1	42.8
90°-120°	1397.5	28.1
90°-150°	2503.6	50.4
90°-180°	2844.0	57.2
0°-180°	4970.6	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°	2	9	19	21	22	4
95°	26	84	453	132	89	28
105°	89	131	614	1073	971	94
115°	156	195	470	1030	1181	155
125°	218	257	438	794	931	193
135°	255	304	432	654	755	197
145°	291	333	427	536	590	182
155°	331	356	413	470	489	152
165°	361	371	396	420	427	102
175°	376	377	379	385	384	36
180°	377	377	377	377	377	

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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°	1.5	9.2	19.1	21.4	22.1
92.5°	11.5	45.8	142.0	48.5	40.5
95°	26.0	84.4	452.7	132.0	88.6
97.5°	41.2	96.6	696.3	332.1	181.7
100°	56.5	106.5	723.0	694.7	478.7
102.5°	72.5	118.0	673.4	930.3	758.1
105°	88.6	131.0	613.8	1073.4	971.1
107.5°	105.4	146.2	561.1	1136.4	1110.1
110°	123.7	161.8	517.6	1138.3	1189.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	140.5	178.3	488.6	1095.2	1205.5
115°	156.5	195.1	469.5	1029.5	1181.1
117.5°	172.5	211.1	456.5	959.2	1127.6
120°	189.3	227.2	448.1	892.8	1057.4
122.5°	203.8	242.4	442.8	840.6	991.7
125°	217.6	256.9	438.2	794.0	931.4
127.5°	228.3	270.6	435.9	755.8	879.5
130°	238.2	282.9	433.6	720.7	836.7
132.5°	245.8	294.0	432.9	687.8	794.7
135°	255.0	304.2	432.1	653.9	755.1
137.5°	263.4	312.6	430.6	621.8	713.1
140°	271.8	320.2	429.8	590.5	668.8
142.5°	280.9	327.2	428.3	561.9	627.6
145°	290.9	333.2	426.8	536.3	590.1
147.5°	300.8	339.8	424.5	516.5	558.1
150°	310.7	345.0	421.4	499.0	530.6
152.5°	320.6	350.8	417.6	483.6	507.7
155°	330.6	356.5	413.0	469.5	489.4
157.5°	338.2	361.5	409.2	455.8	471.8
160°	347.4	365.7	404.6	443.2	455.0
162.5°	354.2	368.8	400.0	431.4	439.7
165°	361.1	371.4	395.5	419.5	426.8
167.5°	366.5	373.7	390.9	409.2	413.8
170°	371.0	374.8	386.3	400.0	402.3
172.5°	374.1	376.0	382.5	392.0	391.6
175°	376.4	376.8	379.4	384.8	384.0
177.5°	377.9	377.1	377.1	380.2	378.7
180°	377.1	377.1	377.1	377.1	377.1

(END OF REPORT)