

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: P1012685

Luminaire Tested: S123RDIP-B560D805UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012685
REPORT IS A COMBINATION OF REPORTS P993506 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B560D805UB35-4F0-XX-W2A-F4
Description: Define 3 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

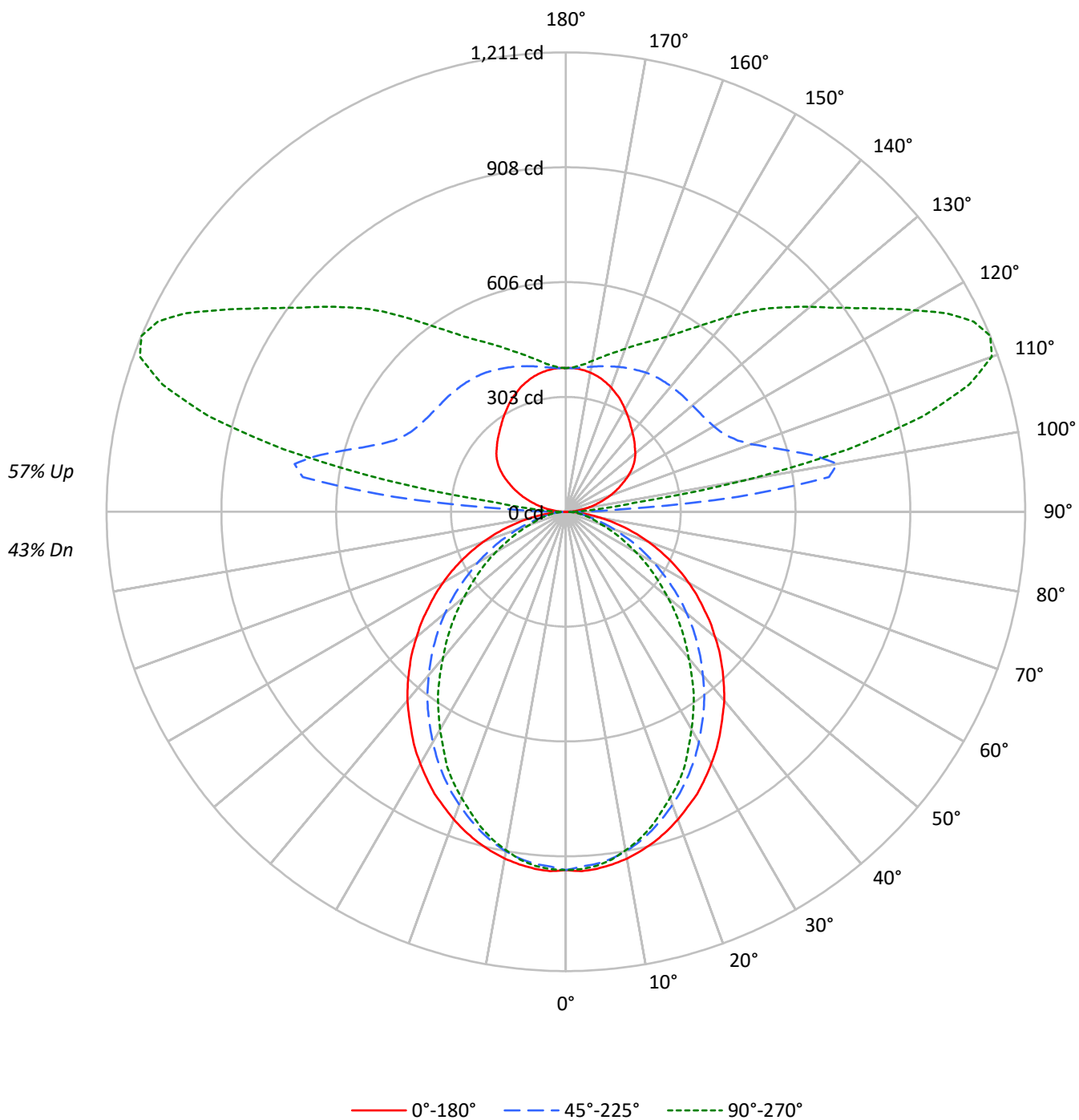
Lumens per Lamp: N/A
Luminaire Lumens: 4992.6 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	49	49	49
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°	10168	10168	10168
5°	10184	9808	9781
10°	10104	9440	9253
15°	9972	8983	8675
20°	9801	8487	8028
25°	9623	7972	7415
30°	9396	7425	6691
35°	9161	6886	6032
40°	8940	6301	5303
45°	8658	5730	4648
50°	8347	5119	3970
55°	8023	4466	3349
60°	7715	3796	2718
65°	7315	3108	2122
70°	6814	2351	1516
75°	6090	1592	1201
80°	5201	1107	842
85°	3900	599	441

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8658 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.8	1.8
10°-20°	247.0	4.9
20°-30°	355.7	7.1
30°-40°	400.5	8.0
40°-50°	383.1	7.7
50°-60°	313.6	6.3
60°-70°	211.5	4.2
70°-80°	106.1	2.1
80°-90°	29.9	0.6
90°-100°	215.3	4.3
100°-110°	601.8	12.1
110°-120°	586.8	11.8
120°-130°	467.2	9.4
130°-140°	368.8	7.4
140°-150°	275.2	5.5
150°-160°	192.0	3.8
160°-170°	112.8	2.3
170°-180°	36.7	0.7
0°-30°	691.5	13.9
0°-40°	1092.0	21.9
0°-60°	1788.8	35.8
0°-90°	2136.1	42.8
90°-120°	1403.9	28.1
90°-150°	2515.1	50.4
90°-180°	2857.0	57.2
0°-180°	4992.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	945	945	945	945	945	
5°	945	941	932	938	937	90
15°	901	892	871	867	862	254
25°	820	801	765	749	741	377
35°	709	682	634	601	588	444
45°	583	548	490	446	428	450
55°	443	405	340	296	280	397
65°	303	260	201	163	155	299
75°	160	123	81	74	72	171
85°	41	24	22	20	20	44
90°	2	9	19	21	22	5
95°	26	85	455	133	89	28
105°	89	132	617	1078	976	94
115°	157	196	472	1034	1186	156
125°	219	258	440	798	936	194
135°	256	306	434	657	758	198
145°	292	335	429	539	593	183
155°	332	358	415	472	492	153
165°	363	373	397	421	429	102
175°	378	378	381	386	386	36
180°	379	379	379	379	379	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	944.6	944.6	944.6	944.6	944.6
2.5°	948.4	945.4	936.2	944.6	943.1
5°	944.6	940.8	931.6	938.5	936.9
7.5°	937.7	933.9	922.4	927.0	924.7
10°	928.5	923.1	909.4	910.1	906.3
12.5°	915.5	909.4	891.7	891.0	886.4
15°	900.9	892.5	871.0	867.2	861.9
17.5°	883.3	874.1	847.3	839.6	832.0
20°	863.4	851.1	822.0	812.1	802.9
22.5°	841.2	826.6	795.2	782.2	773.8
25°	819.7	800.6	765.3	749.2	740.8
27.5°	793.7	773.0	734.7	713.2	700.2
30°	766.9	743.9	701.0	674.9	662.7
32.5°	740.0	713.2	667.3	638.2	625.1
35°	709.4	681.8	634.3	601.4	587.6
37.5°	678.8	648.9	599.1	562.3	545.5
40°	649.6	615.9	561.5	521.7	504.1
42.5°	616.7	583.0	526.3	481.9	466.6
45°	583.0	548.5	489.5	445.9	427.5
47.5°	550.1	511.7	453.5	406.0	389.9
50°	513.3	477.3	415.2	367.7	350.1
52.5°	480.3	440.5	379.2	329.4	314.1
55°	442.8	405.3	340.1	295.7	280.4
57.5°	409.1	368.5	302.6	260.5	247.4
60°	373.9	331.7	268.1	226.8	213.7
62.5°	338.6	296.5	232.9	194.6	180.8
65°	302.6	260.5	200.7	163.2	154.8
67.5°	266.6	223.7	165.5	137.1	127.9
70°	231.4	190.0	136.4	109.6	101.1
72.5°	196.1	155.5	108.0	87.3	85.0
75°	160.1	123.3	81.2	73.5	72.0
77.5°	127.2	93.5	63.6	59.0	57.5
80°	95.8	64.4	48.3	46.0	44.4
82.5°	65.9	39.8	34.5	32.2	32.2
85°	40.6	23.7	21.5	19.9	19.9
87.5°	18.4	10.0	10.0	9.2	8.4
90°	1.5	9.2	19.2	21.4	22.2
92.5°	11.5	46.0	142.7	48.7	40.6
95°	26.1	84.8	454.8	132.7	89.0
97.5°	41.4	97.0	699.5	333.6	182.5
100°	56.8	107.0	726.3	698.0	480.9
102.5°	72.9	118.5	676.4	934.5	761.6
105°	89.0	131.5	616.6	1078.4	975.6
107.5°	105.8	146.8	563.7	1141.6	1115.1
110°	124.2	162.6	520.0	1143.6	1194.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.1	179.0	490.8	1100.2	1211.0
115°	157.2	196.0	471.7	1034.2	1186.5
117.5°	173.3	212.0	458.6	963.6	1132.8
120°	190.2	228.2	450.2	897.0	1062.2
122.5°	204.8	243.6	444.8	844.4	996.3
125°	218.6	258.0	440.2	797.6	935.7
127.5°	229.3	271.8	437.9	759.3	883.5
130°	239.3	284.2	435.6	724.0	840.6
132.5°	247.0	295.2	434.9	691.0	798.4
135°	256.2	305.6	434.1	656.8	758.5
137.5°	264.6	314.1	432.6	624.7	716.3
140°	273.0	321.7	431.8	593.2	671.8
142.5°	282.2	328.6	430.3	564.5	630.4
145°	292.2	334.8	428.7	538.8	592.8
147.5°	302.2	341.3	426.4	518.8	560.6
150°	312.1	346.7	423.4	501.2	533.0
152.5°	322.1	352.4	419.5	485.8	510.0
155°	332.1	358.2	414.9	471.7	491.6
157.5°	339.8	363.2	411.1	457.8	474.0
160°	349.0	367.4	406.5	445.2	457.1
162.5°	355.9	370.4	401.9	433.3	441.8
165°	362.8	373.1	397.3	421.4	428.7
167.5°	368.1	375.4	392.7	411.0	415.7
170°	372.7	376.6	388.1	401.8	404.2
172.5°	375.8	377.7	384.2	393.8	393.4
175°	378.1	378.5	381.2	386.5	385.8
177.5°	379.6	378.9	378.9	381.9	380.4
180°	378.9	378.9	378.9	378.9	378.9

(END OF REPORT)