

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: P1011874

Luminaire Tested: S123DIP-B560D805UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011874
REPORT IS A COMBINATION OF REPORTS P990197 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D805UB35-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

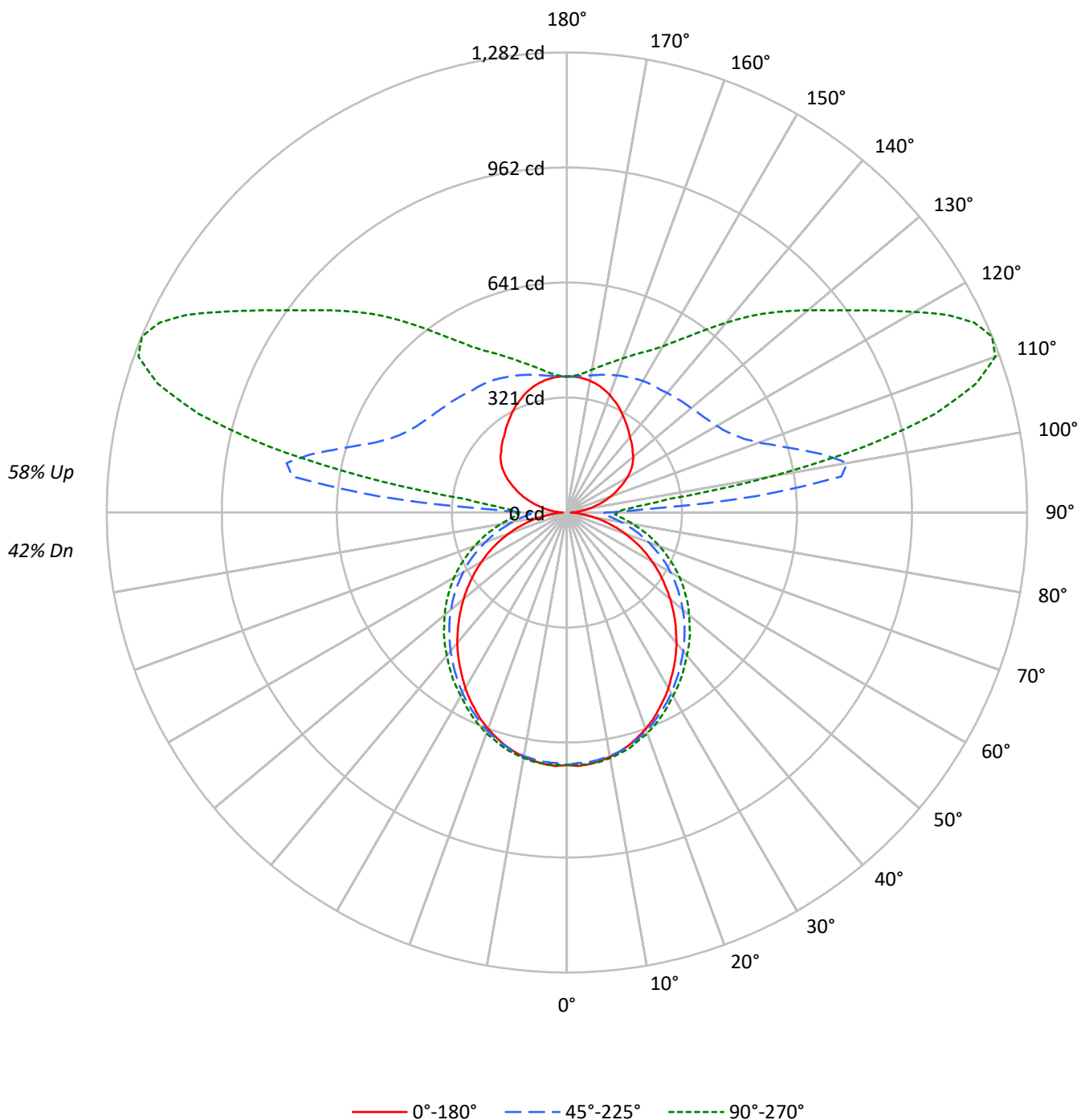
Lumens per Lamp: N/A
Luminaire Lumens: 5222.7 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	63	63	63	48	48	48
1	95	90	86	82	86	82	79	76	68	65	63	54	52	50	41	40	39
2	86	78	72	67	78	72	66	61	59	55	51	47	44	41	36	34	32
3	78	69	61	55	71	63	56	51	51	47	43	41	38	35	31	29	27
4	72	60	52	46	65	55	48	43	46	40	36	36	33	29	28	25	23
5	66	54	45	39	59	49	42	36	41	35	31	33	29	25	25	22	20
6	60	48	40	34	55	44	37	32	36	31	27	29	25	22	23	20	17
7	56	43	35	30	50	40	33	28	33	27	23	27	22	19	21	18	15
8	52	39	31	26	47	36	29	24	30	25	21	24	20	17	19	16	14
9	48	36	28	23	44	33	26	22	27	22	18	22	18	15	17	15	12
10	45	33	25	21	41	30	24	19	25	20	17	21	17	14	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7571	7571	7571
5°	7592	7349	7343
10°	7521	7150	7096
15°	7422	6930	6833
20°	7280	6686	6550
25°	7106	6410	6259
30°	6929	6160	5965
35°	6728	5898	5726
40°	6539	5658	5474
45°	6327	5426	5266
50°	6117	5196	5039
55°	5887	4961	4832
60°	5660	4719	4619
65°	5427	4462	4371
70°	5077	4173	4113
75°	4633	3846	3847
80°	4121	3512	3546
85°	3602	3244	3329

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6327 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	1.3
10°-20°	190.2	3.6
20°-30°	284.5	5.4
30°-40°	339.6	6.5
40°-50°	355.4	6.8
50°-60°	333.5	6.4
60°-70°	278.5	5.3
70°-80°	199.2	3.8
80°-90°	120.6	2.3
90°-100°	289.8	5.5
100°-110°	656.5	12.6
110°-120°	623.3	11.9
120°-130°	488.1	9.3
130°-140°	378.2	7.2
140°-150°	277.1	5.3
150°-160°	192.0	3.7
160°-170°	112.8	2.2
170°-180°	36.7	0.7
0°-30°	541.4	10.4
0°-40°	881.0	16.9
0°-60°	1569.9	30.1
0°-90°	2168.2	41.5
90°-120°	1569.6	30.1
90°-150°	2713.0	51.9
90°-180°	3054.0	58.5
0°-180°	5222.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	703	703	703	703	703	
5°	704	703	698	704	703	67
15°	670	673	672	680	679	189
25°	605	613	615	625	625	279
35°	521	533	543	555	558	326
45°	426	444	464	478	484	329
55°	325	350	378	398	405	291
65°	224	254	288	311	319	222
75°	122	158	196	221	231	130
85°	38	76	116	142	150	39
90°	12	57	106	134	142	9
95°	34	123	531	232	196	34
105°	95	156	674	1157	1061	101
115°	161	209	512	1093	1252	160
125°	221	260	465	838	982	196
135°	258	306	443	680	785	199
145°	293	335	429	545	602	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°	703.4	703.4	703.4	703.4	703.4
2.5°	707.2	704.9	698.8	704.9	704.2
5°	704.2	702.6	698.0	704.2	703.4
7.5°	698.8	698.8	694.2	701.9	701.1
10°	691.1	692.7	688.8	696.5	695.0
12.5°	682.0	684.3	682.0	688.8	687.3
15°	670.5	672.8	672.0	679.7	678.9
17.5°	656.7	661.3	660.5	667.4	665.9
20°	641.3	645.9	647.5	654.4	655.1
22.5°	625.3	629.8	632.1	641.3	640.6
25°	605.3	613.0	615.3	625.3	625.3
27.5°	586.2	594.6	599.2	607.6	608.4
30°	565.5	575.4	581.6	590.8	590.8
32.5°	542.5	554.0	562.4	572.4	574.7
35°	521.0	533.3	543.3	554.8	557.8
37.5°	498.1	511.8	523.3	536.4	538.7
40°	475.1	488.9	504.2	517.2	520.3
42.5°	449.8	467.4	483.5	498.1	502.7
45°	426.0	444.4	463.6	478.1	484.3
47.5°	400.7	421.4	442.9	459.0	463.6
50°	376.2	397.7	421.4	439.1	444.4
52.5°	350.2	373.2	400.0	418.4	425.3
55°	324.9	350.2	377.8	398.4	404.6
57.5°	300.4	326.4	356.3	377.0	383.9
60°	274.3	301.9	333.3	354.8	363.2
62.5°	249.8	278.1	311.9	333.3	341.0
65°	224.5	254.4	288.1	311.1	318.8
67.5°	199.2	230.6	264.4	289.6	295.8
70°	172.4	205.4	242.1	266.7	274.3
72.5°	147.9	180.8	219.1	244.4	252.1
75°	121.8	157.8	196.2	221.4	230.6
77.5°	99.6	135.6	173.9	200.8	207.7
80°	75.9	113.4	153.2	179.3	187.0
82.5°	55.2	93.5	134.1	160.1	167.8
85°	37.5	75.9	116.5	142.5	150.2
87.5°	23.0	61.3	100.4	126.4	134.1
90°	11.5	56.7	105.8	134.0	142.5
92.5°	20.7	88.1	223.2	154.4	153.2
95°	34.5	123.0	530.7	232.3	196.3
97.5°	49.1	132.2	770.8	427.8	284.4
100°	63.7	138.4	793.0	786.8	577.4
102.5°	79.0	146.1	738.5	1018.0	852.8
105°	95.1	156.0	674.1	1157.2	1061.4
107.5°	111.2	168.4	616.6	1215.2	1195.6
110°	128.8	181.0	569.0	1212.6	1270.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	145.7	194.4	535.2	1163.8	1281.5
115°	161.0	209.0	512.3	1093.2	1251.6
117.5°	177.1	222.0	494.6	1018.0	1193.3
120°	193.3	235.1	482.4	946.8	1117.4
122.5°	207.9	248.2	473.2	889.6	1046.9
125°	220.9	260.3	464.7	838.2	981.7
127.5°	231.6	273.4	458.6	795.3	924.9
130°	241.6	285.6	452.5	755.4	876.6
132.5°	248.5	296.8	447.9	717.8	830.6
135°	257.7	306.4	443.3	679.8	785.3
137.5°	266.1	314.9	438.7	643.1	738.5
140°	273.8	322.5	434.9	607.8	690.2
142.5°	283.0	328.6	430.3	574.5	644.2
145°	293.0	334.8	428.7	544.9	602.0
147.5°	302.2	341.3	426.4	521.2	566.0
150°	312.1	346.7	423.4	501.2	534.5
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)