

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: P1011873

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011873
REPORT IS A COMBINATION OF REPORTS P990195 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-D
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

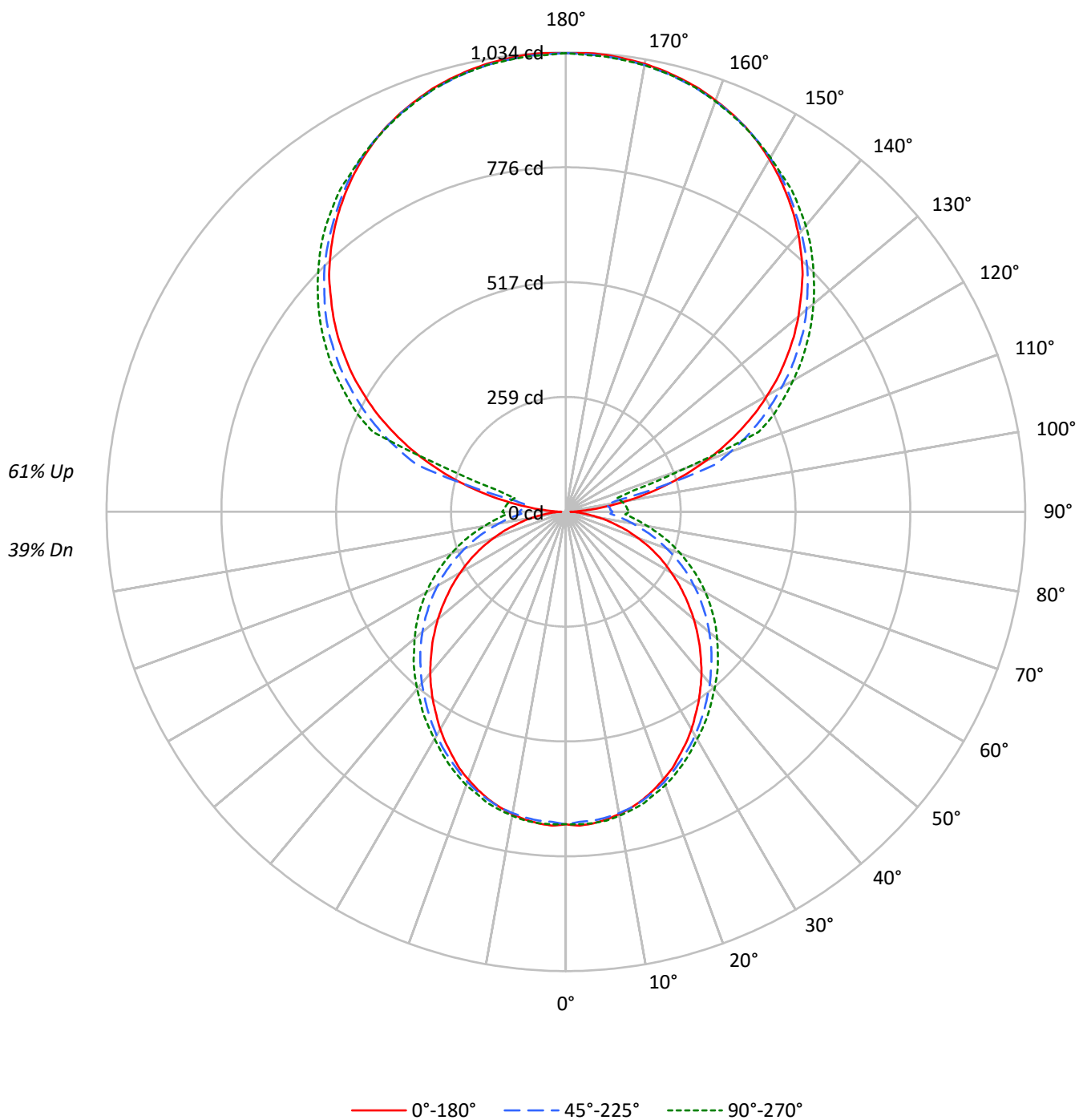
Lumens per Lamp: N/A
Luminaire Lumens: 5513.0 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	95	95	95	95	77	77	77	61	61	61	46	46	46
1	95	90	86	82	86	82	78	75	67	64	62	53	51	49	40	38	37
2	86	78	72	66	78	71	66	61	58	54	50	46	43	40	34	33	31
3	78	68	61	55	70	62	56	50	51	46	42	40	37	34	30	28	26
4	71	60	52	46	64	55	48	42	45	40	35	36	32	29	27	24	22
5	65	53	45	39	59	49	42	36	40	35	30	32	28	25	24	21	19
6	60	48	40	34	54	44	37	31	36	30	26	29	25	21	22	19	17
7	55	43	35	29	50	39	32	27	32	27	23	26	22	19	20	17	15
8	51	39	31	26	46	36	29	24	29	24	20	24	20	17	18	15	13
9	48	35	28	23	43	33	26	21	27	22	18	22	18	15	17	14	12
10	44	32	25	20	40	30	23	19	25	20	16	20	16	13	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	1.2
10°-20°	190.2	3.5
20°-30°	284.5	5.2
30°-40°	339.6	6.2
40°-50°	355.4	6.4
50°-60°	333.5	6.0
60°-70°	278.5	5.1
70°-80°	199.2	3.6
80°-90°	120.6	2.2
90°-100°	110.9	2.0
100°-110°	230.7	4.2
110°-120°	467.8	8.5
120°-130°	568.4	10.3
130°-140°	594.2	10.8
140°-150°	548.9	10.0
150°-160°	441.2	8.0
160°-170°	284.7	5.2
170°-180°	98.1	1.8
0°-30°	541.4	9.8
0°-40°	881.0	16.0
0°-60°	1569.9	28.5
0°-90°	2168.1	39.3
90°-120°	809.4	14.7
90°-150°	2520.9	45.7
90°-180°	3345.0	60.7
0°-180°	5513.0	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°	11	56	105	134	143	10
95°	55	54	100	129	136	62
105°	235	262	226	111	120	248
115°	432	446	481	507	516	427
125°	607	613	638	656	663	542
135°	754	758	769	785	787	580
145°	869	874	875	883	886	544
155°	956	955	956	959	955	441
165°	1008	1006	1005	1012	1006	285
175°	1032	1028	1029	1035	1028	98
180°	1032	1032	1032	1032	1032	

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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°	10.8	55.9	105.0	134.1	143.3
92.5°	26.8	55.1	100.4	131.0	138.7
95°	55.2	53.6	99.7	128.7	136.4
97.5°	92.8	98.9	95.8	124.9	133.3
100°	136.5	176.3	92.0	120.3	128.7
102.5°	186.3	217.8	118.9	114.9	124.2
105°	234.6	261.5	225.5	111.1	119.5
107.5°	285.3	308.3	351.2	253.8	160.3
110°	335.9	355.8	394.9	389.6	286.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	385.0	401.1	438.6	464.7	470.1
115°	432.5	446.3	480.8	506.9	516.0
117.5°	480.1	491.6	521.5	546.0	552.9
120°	523.1	533.8	561.4	585.1	590.5
122.5°	567.5	574.4	601.3	621.9	628.1
125°	606.6	612.8	638.0	655.7	662.6
127.5°	646.5	651.8	674.9	692.5	696.3
130°	683.3	688.7	707.1	724.7	727.8
132.5°	717.8	723.9	737.7	754.6	757.7
135°	753.8	757.7	769.2	785.3	786.8
137.5°	784.5	790.0	796.8	812.9	815.2
140°	814.5	819.1	823.7	838.3	840.5
142.5°	842.9	846.7	849.0	861.3	862.8
145°	868.9	873.5	875.0	882.7	885.8
147.5°	893.5	897.3	898.8	902.7	901.9
150°	916.5	918.8	920.3	921.8	921.0
152.5°	937.2	937.9	938.7	941.8	937.9
155°	956.3	954.8	955.6	959.4	954.8
157.5°	971.7	971.7	970.9	975.5	969.4
160°	985.5	984.7	983.9	988.5	983.2
162.5°	998.5	996.2	995.5	1000.8	996.2
165°	1008.5	1006.2	1005.4	1011.6	1006.2
167.5°	1016.9	1013.9	1013.9	1020.0	1013.9
170°	1023.8	1020.8	1020.8	1026.9	1020.8
172.5°	1028.4	1024.6	1025.4	1031.5	1024.6
175°	1032.3	1028.4	1029.2	1034.6	1028.4
177.5°	1033.8	1030.0	1030.7	1036.9	1029.2
180°	1032.3	1032.3	1032.3	1032.3	1032.3

(END OF REPORT)