

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: P1011787

Luminaire Tested: S123DIP-B560D365UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011787
REPORT IS A COMBINATION OF REPORTS P990075 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D365UB35-4F0-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

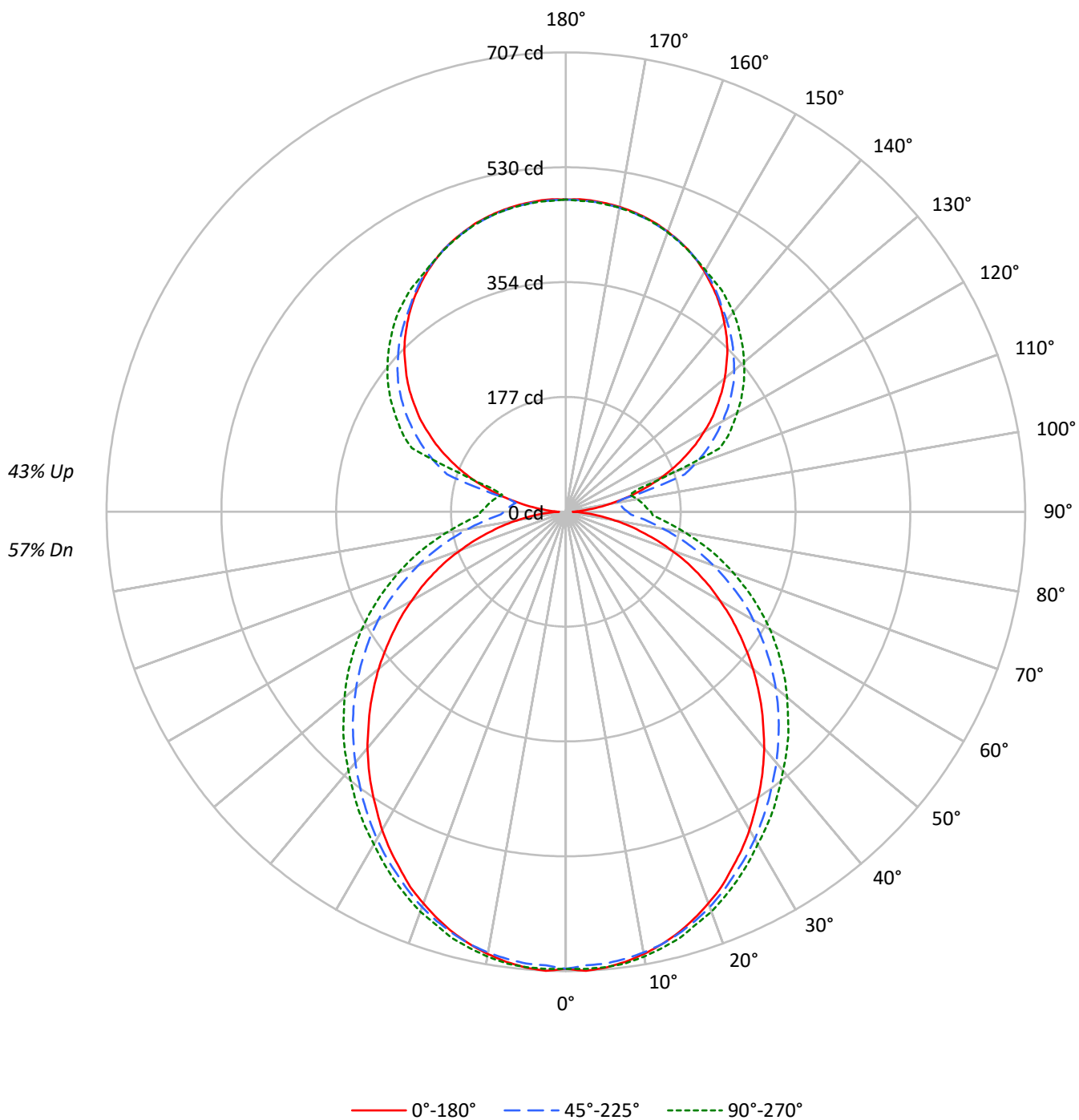
Lumens per Lamp: N/A
Luminaire Lumens: 3830.0 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 33.3
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62
1	98	93	89	85	91	87	83	79	75	72	69	63	61	59	53	52	50
2	89	81	74	68	82	75	69	64	65	60	56	55	52	49	46	44	41
3	81	71	63	56	75	66	59	53	57	51	47	48	44	41	40	37	35
4	74	62	54	47	68	58	51	45	50	44	40	43	38	34	36	32	30
5	68	55	47	40	62	52	44	38	45	39	34	38	33	30	32	29	26
6	62	50	41	35	58	46	39	33	40	34	29	35	30	26	29	25	22
7	58	45	36	31	53	42	34	29	36	30	26	31	26	23	27	23	20
8	53	41	33	27	49	38	31	26	33	27	23	29	24	20	24	21	18
9	50	37	29	24	46	35	28	23	30	25	21	26	22	18	23	19	16
10	46	34	26	22	43	32	25	21	28	22	18	24	20	16	21	17	14

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	1.7
10°-20°	190.2	5.0
20°-30°	284.5	7.4
30°-40°	339.6	8.9
40°-50°	355.4	9.3
50°-60°	333.5	8.7
60°-70°	278.5	7.3
70°-80°	199.2	5.2
80°-90°	119.5	3.1
90°-100°	91.4	2.4
100°-110°	136.7	3.6
110°-120°	237.3	6.2
120°-130°	275.7	7.2
130°-140°	281.6	7.4
140°-150°	256.6	6.7
150°-160°	205.4	5.4
160°-170°	132.5	3.5
170°-180°	45.7	1.2
0°-30°	541.4	14.1
0°-40°	881.0	23.0
0°-60°	1569.9	41.0
0°-90°	2167.0	56.6
90°-120°	465.4	12.2
90°-150°	1279.4	33.4
90°-180°	1663.0	43.4
0°-180°	3830.0	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°	10	51	95	123	131	8
95°	30	45	87	113	121	33
105°	112	135	136	94	102	119
115°	203	215	246	268	275	201
125°	284	286	310	327	333	254
135°	352	353	363	378	381	271
145°	405	407	407	414	417	253
155°	445	444	445	447	444	205
165°	470	468	468	471	468	133
175°	481	479	479	482	479	46
180°	481	481	481	481	481	

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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°	10.4	51.4	95.2	122.6	131.0
92.5°	17.4	48.2	89.8	117.5	124.7
95°	30.2	45.4	87.0	113.2	120.9
97.5°	47.3	64.8	82.7	108.5	116.5
100°	67.2	98.9	78.5	103.5	111.5
102.5°	90.0	116.1	88.5	98.1	106.6
105°	112.5	134.8	135.7	93.9	101.5
107.5°	135.7	155.0	191.8	157.5	117.6
110°	158.8	175.5	210.0	218.2	173.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	181.7	194.9	227.9	250.3	256.5
115°	203.4	214.7	245.5	267.5	275.0
117.5°	225.5	234.2	262.0	283.3	289.7
120°	245.2	252.2	278.6	299.0	304.4
122.5°	265.9	269.9	295.1	313.7	319.4
125°	283.6	286.5	310.1	326.9	333.1
127.5°	302.2	304.3	325.2	341.6	346.3
130°	319.3	321.4	338.2	354.2	358.0
132.5°	335.0	337.8	350.4	365.6	370.0
135°	351.7	353.2	363.0	377.9	380.6
137.5°	366.0	368.2	374.2	388.3	391.4
140°	379.6	381.8	385.1	398.1	401.1
142.5°	392.8	394.2	395.2	406.3	409.0
145°	405.0	406.7	407.4	414.2	417.3
147.5°	415.9	417.7	418.4	421.5	422.8
150°	426.7	427.7	428.4	429.2	429.6
152.5°	436.3	436.6	437.0	438.4	436.6
155°	445.2	444.5	444.9	446.6	444.5
157.5°	452.4	452.4	452.0	454.1	451.3
160°	458.8	458.4	458.1	460.2	457.7
162.5°	464.9	463.8	463.4	465.9	463.8
165°	469.5	468.4	468.1	470.9	468.4
167.5°	473.4	472.0	472.0	474.9	472.0
170°	476.6	475.2	475.2	478.1	475.2
172.5°	478.8	477.0	477.4	480.2	477.0
175°	480.6	478.8	479.1	481.6	478.8
177.5°	481.3	479.5	479.8	482.7	479.1
180°	480.6	480.6	480.6	480.6	480.6

(END OF REPORT)