

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: P1011699

Luminaire Tested: S123DIP-B560D1025UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011699
REPORT IS A COMBINATION OF REPORTS P989957 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D1025UB35-4F0-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

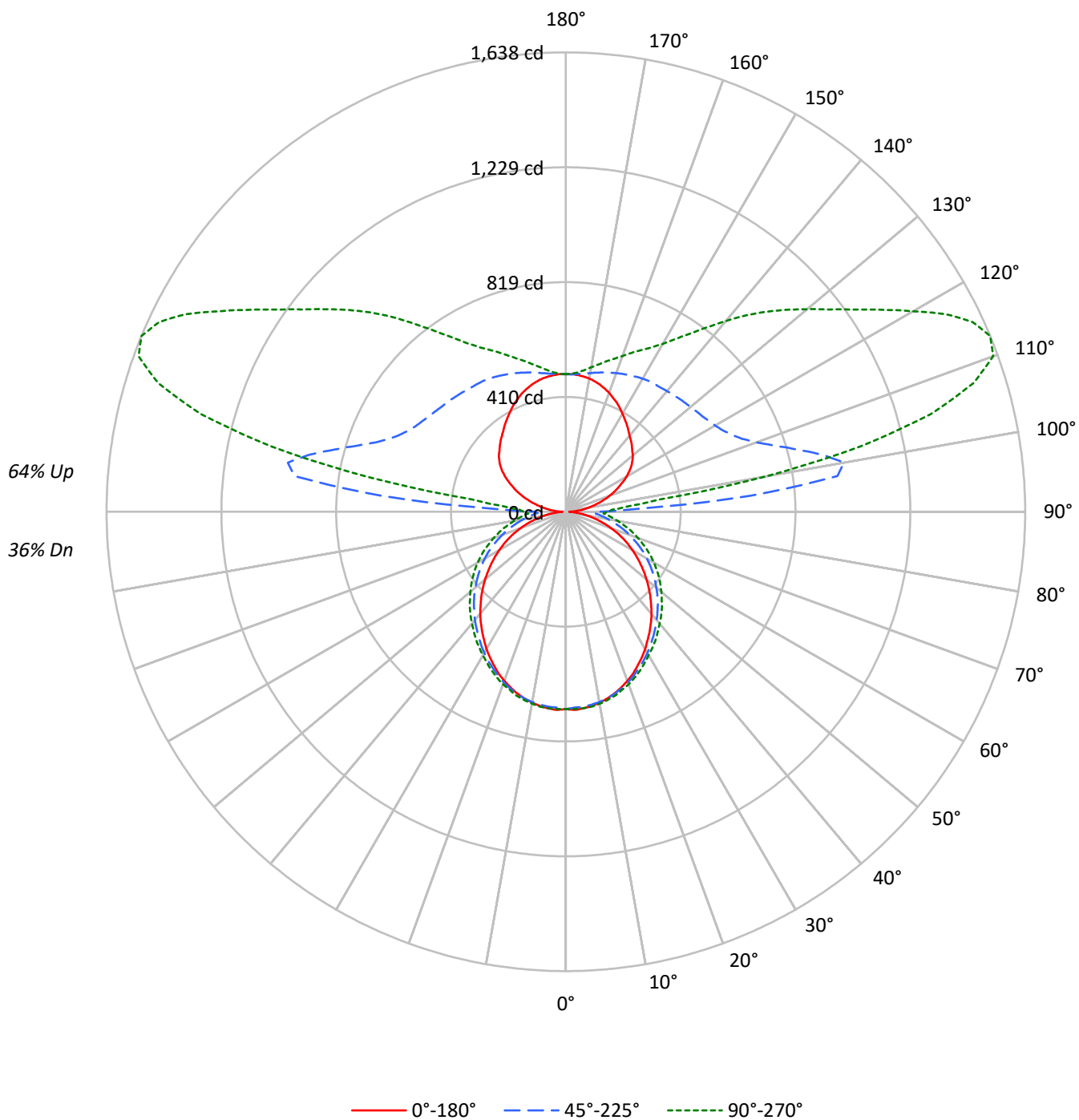
Lumens per Lamp: N/A
Luminaire Lumens: 6063.6 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
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	104	104	104	104	94	94	94	94	75	75	75	59	59	59	43	43	43
1	94	89	85	81	85	81	77	74	65	62	60	50	49	47	37	36	35
2	85	77	71	66	77	70	65	60	56	53	49	44	41	39	32	30	29
3	77	68	60	54	70	61	55	50	49	45	41	38	35	32	28	26	24
4	71	60	52	46	64	54	47	42	44	39	35	34	30	28	25	23	21
5	65	53	45	39	58	48	41	36	39	34	30	30	27	24	22	20	18
6	59	47	39	34	53	43	36	31	35	30	26	27	24	21	20	18	16
7	55	43	35	29	49	39	32	27	32	26	22	25	21	18	18	16	14
8	51	39	31	26	46	35	28	24	29	24	20	23	19	16	17	14	12
9	47	35	28	23	43	32	25	21	26	21	18	21	17	14	16	13	11
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	14	12	10

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	1.1
10°-20°	190.2	3.1
20°-30°	284.5	4.7
30°-40°	339.6	5.6
40°-50°	355.4	5.9
50°-60°	333.5	5.5
60°-70°	278.5	4.6
70°-80°	199.2	3.3
80°-90°	121.2	2.0
90°-100°	353.1	5.8
100°-110°	833.6	13.7
110°-120°	796.0	13.1
120°-130°	625.5	10.3
130°-140°	486.7	8.0
140°-150°	358.1	5.9
150°-160°	248.4	4.1
160°-170°	145.9	2.4
170°-180°	47.5	0.8
0°-30°	541.4	8.9
0°-40°	881.0	14.5
0°-60°	1569.9	25.9
0°-90°	2168.8	35.8
90°-120°	1982.6	32.7
90°-150°	3452.9	56.9
90°-180°	3895.0	64.2
0°-180°	6063.6	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	59	111	140	149	10
95°	42	148	664	271	222	42
105°	121	195	856	1474	1348	128
115°	207	267	651	1398	1601	205
125°	285	336	594	1073	1257	254
135°	333	396	571	873	1008	257
145°	379	433	555	703	776	237
155°	430	464	537	610	636	198
165°	470	483	514	545	555	132
175°	489	490	493	500	499	46
180°	490	490	490	490	490	

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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°	12.0	59.4	111.4	140.4	149.1
92.5°	24.1	101.6	265.1	168.8	165.2
95°	42.1	148.0	664.5	271.3	222.4
97.5°	61.3	160.8	976.5	526.0	338.1
100°	80.3	169.8	1006.7	992.2	718.8
102.5°	100.4	181.0	937.5	1293.0	1076.8
105°	121.2	194.7	855.5	1474.4	1348.3
107.5°	142.4	211.6	782.4	1551.0	1523.7
110°	165.4	228.8	722.0	1549.0	1621.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	187.2	247.1	679.6	1487.4	1637.8
115°	207.3	266.6	651.0	1397.5	1600.6
117.5°	228.1	284.4	629.6	1301.6	1526.5
120°	249.3	302.2	614.8	1210.6	1429.9
122.5°	268.1	319.7	604.1	1138.0	1339.9
125°	285.2	336.3	594.2	1072.9	1256.9
127.5°	299.1	353.4	587.5	1018.6	1184.8
130°	312.0	369.2	580.7	968.4	1123.8
132.5°	321.1	383.6	575.8	921.1	1065.5
135°	333.0	396.3	571.0	873.1	1008.4
137.5°	343.9	407.2	565.9	826.8	949.3
140°	354.2	417.2	561.9	782.4	887.9
142.5°	366.1	425.3	556.8	740.6	829.7
145°	379.0	433.2	554.8	703.4	776.5
147.5°	391.1	441.7	551.9	673.8	731.0
150°	404.0	448.6	547.9	648.7	691.3
152.5°	416.9	456.0	542.9	628.8	660.1
155°	429.8	463.6	537.0	610.4	636.2
157.5°	439.7	470.0	532.0	592.6	613.4
160°	451.6	475.4	526.1	576.2	591.6
162.5°	460.5	479.4	520.1	560.8	571.7
165°	469.5	482.9	514.1	545.4	554.8
167.5°	476.4	485.8	508.2	532.0	538.0
170°	482.4	487.4	502.2	520.1	523.1
172.5°	486.4	488.8	497.3	509.7	509.2
175°	489.3	489.8	493.3	500.3	499.3
177.5°	491.3	490.3	490.3	494.3	492.3
180°	490.3	490.3	490.3	490.3	490.3

(END OF REPORT)