

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: P1011829

Luminaire Tested: S123DIP-B560D585UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011829
REPORT IS A COMBINATION OF REPORTS P990135 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D585UB35-4F0-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

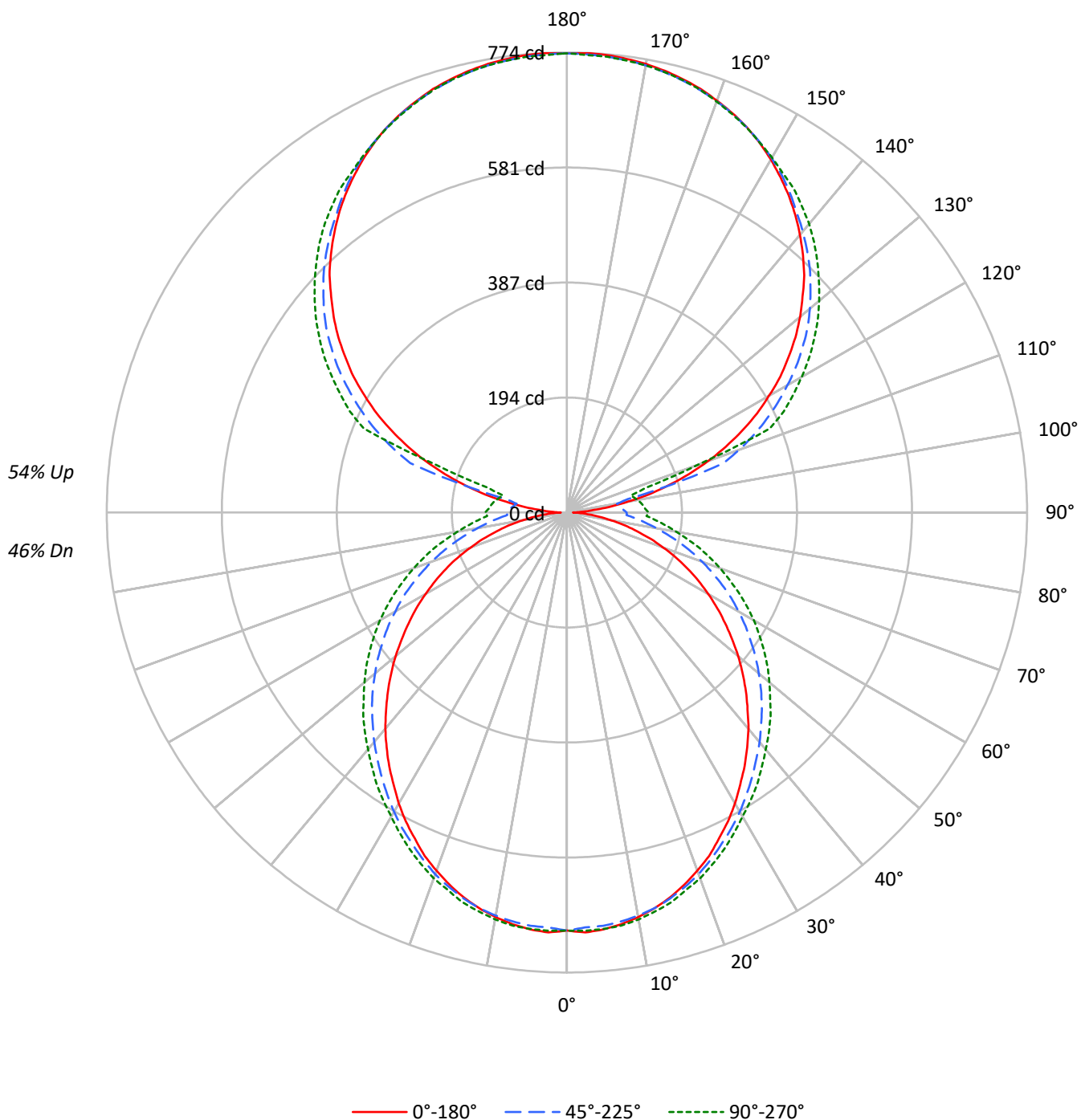
Lumens per Lamp: N/A
Luminaire Lumens: 4721.0 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52
1	96	91	87	83	88	84	80	77	70	67	64	57	55	53	45	43	42
2	87	79	73	67	79	73	67	62	60	56	53	49	46	44	39	37	35
3	79	69	62	55	72	64	57	51	53	48	44	43	39	36	34	31	29
4	72	61	53	47	66	56	49	43	47	41	37	38	34	31	30	27	25
5	66	54	46	40	60	50	43	37	42	36	32	34	30	27	27	24	22
6	61	48	40	34	55	45	37	32	38	32	28	31	26	23	25	21	19
7	56	44	36	30	51	40	33	28	34	28	24	28	24	20	22	19	17
8	52	40	32	26	48	37	30	25	31	25	21	26	21	18	21	17	15
9	48	36	28	23	44	33	27	22	28	23	19	23	19	16	19	16	13
10	45	33	26	21	41	31	24	20	26	21	17	22	18	15	18	14	12

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	1.4
10°-20°	190.2	4.0
20°-30°	284.5	6.0
30°-40°	339.6	7.2
40°-50°	355.4	7.5
50°-60°	333.5	7.1
60°-70°	278.5	5.9
70°-80°	199.2	4.2
80°-90°	120.1	2.5
90°-100°	101.7	2.2
100°-110°	186.5	4.0
110°-120°	359.4	7.6
120°-130°	430.7	9.1
130°-140°	447.1	9.5
140°-150°	411.3	8.7
150°-160°	330.2	7.0
160°-170°	213.1	4.5
170°-180°	73.4	1.6
0°-30°	541.4	11.5
0°-40°	881.0	18.7
0°-60°	1569.9	33.3
0°-90°	2167.6	45.9
90°-120°	647.5	13.7
90°-150°	1936.7	41.0
90°-180°	2553.0	54.1
0°-180°	4721.0	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	54	100	129	138	9
95°	43	50	94	121	129	48
105°	177	202	183	103	111	188
115°	325	337	370	394	403	321
125°	455	459	484	501	508	406
135°	565	567	578	594	596	435
145°	651	654	655	662	665	407
155°	716	715	715	718	715	330
165°	755	753	752	757	753	213
175°	773	770	770	774	770	74
180°	773	773	773	773	773	

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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°	10.6	53.8	100.4	128.7	137.5
92.5°	22.4	51.9	95.4	124.6	132.1
95°	43.4	49.8	93.7	121.4	129.1
97.5°	71.4	82.8	89.7	117.2	125.4
100°	103.9	139.9	85.6	112.4	120.6
102.5°	141.0	170.0	104.6	107.0	115.9
105°	177.2	201.9	183.2	103.0	111.1
107.5°	214.9	236.2	276.2	208.5	140.2
110°	252.6	271.0	307.9	308.9	233.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	289.3	304.0	339.4	363.8	369.6
115°	324.7	337.3	370.1	394.2	402.6
117.5°	360.3	370.5	399.4	422.4	429.0
120°	392.3	401.3	428.3	450.5	455.9
122.5°	425.6	431.1	457.2	476.9	482.8
125°	454.6	459.2	483.7	501.0	507.5
127.5°	484.5	488.3	510.3	527.4	531.6
130°	512.0	515.8	533.5	550.3	553.8
132.5°	537.6	542.2	555.5	571.6	575.2
135°	564.6	567.4	578.1	593.6	595.7
137.5°	587.6	591.5	597.9	613.1	615.7
140°	609.8	613.3	617.3	631.1	633.8
142.5°	631.1	633.7	635.4	647.2	649.2
145°	650.6	653.8	655.0	662.2	665.3
147.5°	668.7	671.6	672.8	676.2	676.4
150°	686.0	687.7	688.8	690.0	689.8
152.5°	701.5	702.0	702.6	704.9	702.0
155°	715.8	714.7	715.2	718.1	714.7
157.5°	727.3	727.3	726.7	730.2	725.6
160°	737.6	737.0	736.5	739.9	735.9
162.5°	747.4	745.7	745.1	749.1	745.7
165°	754.8	753.1	752.5	757.1	753.1
167.5°	761.2	758.9	758.9	763.5	758.9
170°	766.3	764.0	764.0	768.6	764.0
172.5°	769.8	766.9	767.5	772.1	766.9
175°	772.6	769.8	770.3	774.4	769.8
177.5°	773.8	770.9	771.5	776.1	770.3
180°	772.6	772.6	772.6	772.6	772.6

(END OF REPORT)