

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: P1011623

Luminaire Tested: S123DIP-B340D585UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011623
REPORT IS A COMBINATION OF REPORTS P989848 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D585UB40-4F0-XX-W2A-F1
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

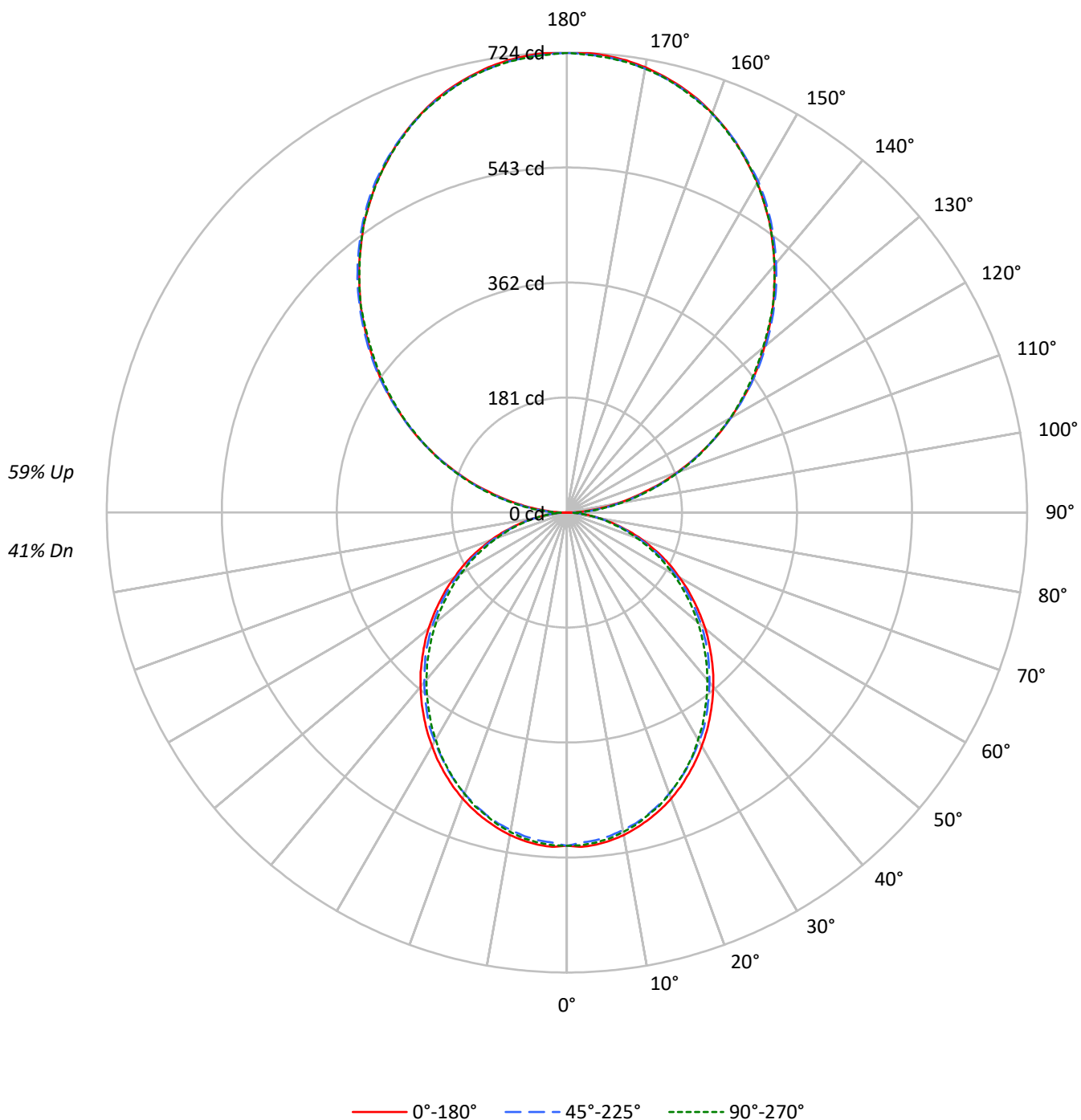
Lumens per Lamp: N/A
Luminaire Lumens: 3371.0 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 28.4
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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47
1	96	91	87	84	87	83	80	77	68	66	64	55	53	52	42	41	40
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	37	35	34
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	33	30	29
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25
5	67	55	47	41	60	50	43	38	42	37	32	34	30	27	26	24	21
6	61	49	41	36	56	45	38	33	38	32	28	30	26	23	24	21	19
7	57	44	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17
8	52	40	33	27	48	37	30	26	31	26	22	25	21	18	20	17	15
9	49	37	29	24	44	34	27	23	28	23	20	23	19	17	18	16	13
10	46	34	27	22	41	31	25	20	26	21	18	21	18	15	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5646	5646	5646
5°	5659	5450	5442
10°	5610	5266	5212
15°	5531	5074	4961
20°	5442	4861	4713
25°	5326	4637	4446
30°	5200	4404	4166
35°	5066	4167	3888
40°	4928	3917	3615
45°	4775	3674	3329
50°	4620	3403	3043
55°	4421	3121	2752
60°	4216	2809	2443
65°	4022	2472	2121
70°	3746	2100	1745
75°	3344	1662	1355
80°	2888	1169	958
85°	2257	627	479

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4775 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.4	1.5
10°-20°	139.6	4.1
20°-30°	206.2	6.1
30°-40°	240.8	7.1
40°-50°	242.1	7.2
50°-60°	212.7	6.3
60°-70°	158.4	4.7
70°-80°	90.1	2.7
80°-90°	27.1	0.8
90°-100°	46.6	1.4
100°-110°	141.0	4.2
110°-120°	240.0	7.1
120°-130°	315.7	9.4
130°-140°	354.8	10.5
140°-150°	348.8	10.3
150°-160°	293.7	8.7
160°-170°	195.5	5.8
170°-180°	68.5	2.0
0°-30°	395.3	11.7
0°-40°	636.1	18.9
0°-60°	1090.8	32.4
0°-90°	1366.5	40.5
90°-120°	427.5	12.7
90°-150°	1446.8	42.9
90°-180°	2004.0	59.4
0°-180°	3371.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	524	524	524	524	524	
5°	525	523	518	522	521	50
15°	500	498	492	496	493	141
25°	454	451	445	446	444	209
35°	392	390	384	381	379	245
45°	322	320	314	308	306	248
55°	244	244	238	233	230	219
65°	166	164	160	156	155	164
75°	88	86	85	82	81	94
85°	24	22	22	22	22	25
90°	1	6	14	16	17	4
95°	34	38	42	44	44	37
105°	128	129	134	134	135	137
115°	242	243	242	243	242	239
125°	354	355	354	352	350	315
135°	459	462	461	459	458	353
145°	556	558	559	559	556	347
155°	637	637	638	640	636	293
165°	694	692	692	696	692	196
175°	722	719	719	723	719	69
180°	723	723	723	723	723	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	524.5	524.5	524.5	524.5	524.5
2.5°	526.7	524.9	520.0	524.5	524.0
5°	524.9	522.7	517.7	522.2	521.3
7.5°	520.9	518.6	513.7	517.7	517.3
10°	515.5	513.2	507.3	511.4	510.5
12.5°	508.2	506.4	501.0	503.7	503.3
15°	499.7	497.9	492.0	495.6	492.9
17.5°	490.2	488.0	482.1	484.8	483.9
20°	479.4	476.7	470.8	472.6	471.3
22.5°	467.2	464.5	458.6	460.0	458.2
25°	453.7	451.0	445.1	445.6	444.2
27.5°	439.7	437.0	430.7	431.1	429.8
30°	424.4	422.1	415.8	415.8	412.6
32.5°	409.0	405.9	401.4	398.2	396.9
35°	392.3	389.6	383.8	381.1	378.8
37.5°	375.7	372.1	366.2	363.0	361.7
40°	358.1	355.4	349.1	345.4	343.6
42.5°	340.5	337.3	331.0	327.4	325.6
45°	321.5	319.7	313.9	308.5	306.2
47.5°	303.1	300.3	294.9	289.5	287.7
50°	284.1	281.9	276.0	271.0	268.3
52.5°	264.3	262.9	256.6	252.5	249.8
55°	244.0	243.5	237.7	232.7	230.4
57.5°	225.0	223.2	218.7	214.2	211.5
60°	204.3	203.8	198.4	194.4	192.1
62.5°	185.8	184.4	179.0	175.0	173.6
65°	166.4	164.2	159.6	156.0	154.7
67.5°	145.7	143.9	140.3	137.1	135.3
70°	127.2	124.5	121.8	118.6	116.4
72.5°	107.8	106.0	102.8	100.1	99.2
75°	87.9	86.1	84.8	82.5	81.2
77.5°	70.4	69.5	67.6	65.8	65.8
80°	53.2	51.9	51.0	50.5	50.5
82.5°	36.5	36.5	36.5	35.6	35.2
85°	23.5	22.5	22.5	21.6	21.6
87.5°	11.7	10.4	9.9	9.5	9.5
90°	0.6	6.3	13.6	15.9	17.0
92.5°	17.0	20.5	23.9	25.6	24.4
95°	33.5	37.5	42.1	44.3	44.3
97.5°	55.1	58.0	61.4	64.2	63.6
100°	77.3	80.7	83.5	85.2	86.4
102.5°	102.9	104.6	108.5	110.2	109.7
105°	127.9	129.0	134.1	134.1	135.3
107.5°	157.4	158.0	160.3	162.0	161.4
110°	184.7	185.8	187.0	189.2	188.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	213.1	213.7	213.7	216.5	216.5
115°	241.5	243.2	242.1	242.7	242.1
117.5°	270.5	271.1	269.9	269.9	268.2
120°	297.2	300.6	297.8	297.2	296.1
122.5°	325.1	327.3	326.2	324.5	322.8
125°	353.5	355.2	354.0	351.8	349.5
127.5°	379.6	383.0	381.9	378.5	376.2
130°	405.8	410.3	408.6	406.3	402.3
132.5°	431.9	436.4	435.3	432.5	429.6
135°	458.6	462.0	461.4	459.2	458.0
137.5°	483.0	485.9	487.6	484.7	483.0
140°	508.6	511.5	512.0	511.5	507.5
142.5°	531.9	534.8	535.9	535.3	532.5
145°	556.3	557.5	559.2	558.6	556.3
147.5°	577.4	579.6	581.4	581.4	577.9
150°	599.5	600.7	601.8	601.8	598.4
152.5°	617.7	619.4	620.0	621.1	618.3
155°	637.0	637.0	637.6	639.9	635.9
157.5°	653.5	653.0	653.5	655.8	652.4
160°	668.9	667.7	667.7	670.6	668.3
162.5°	682.5	680.8	681.4	684.2	680.2
165°	693.9	692.2	692.2	695.6	691.6
167.5°	703.5	701.3	701.8	705.2	701.8
170°	711.5	709.2	709.2	713.2	709.2
172.5°	717.7	715.5	715.5	718.9	714.9
175°	721.7	719.4	719.4	722.9	718.9
177.5°	724.0	721.7	721.7	725.1	721.1
180°	723.4	723.4	723.4	723.4	723.4

(END OF REPORT)