

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: P1011597

Luminaire Tested: S123DIP-B340D585UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011597
REPORT IS A COMBINATION OF REPORTS P989807 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D585UB27-4F0-XX-W2A-F4
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

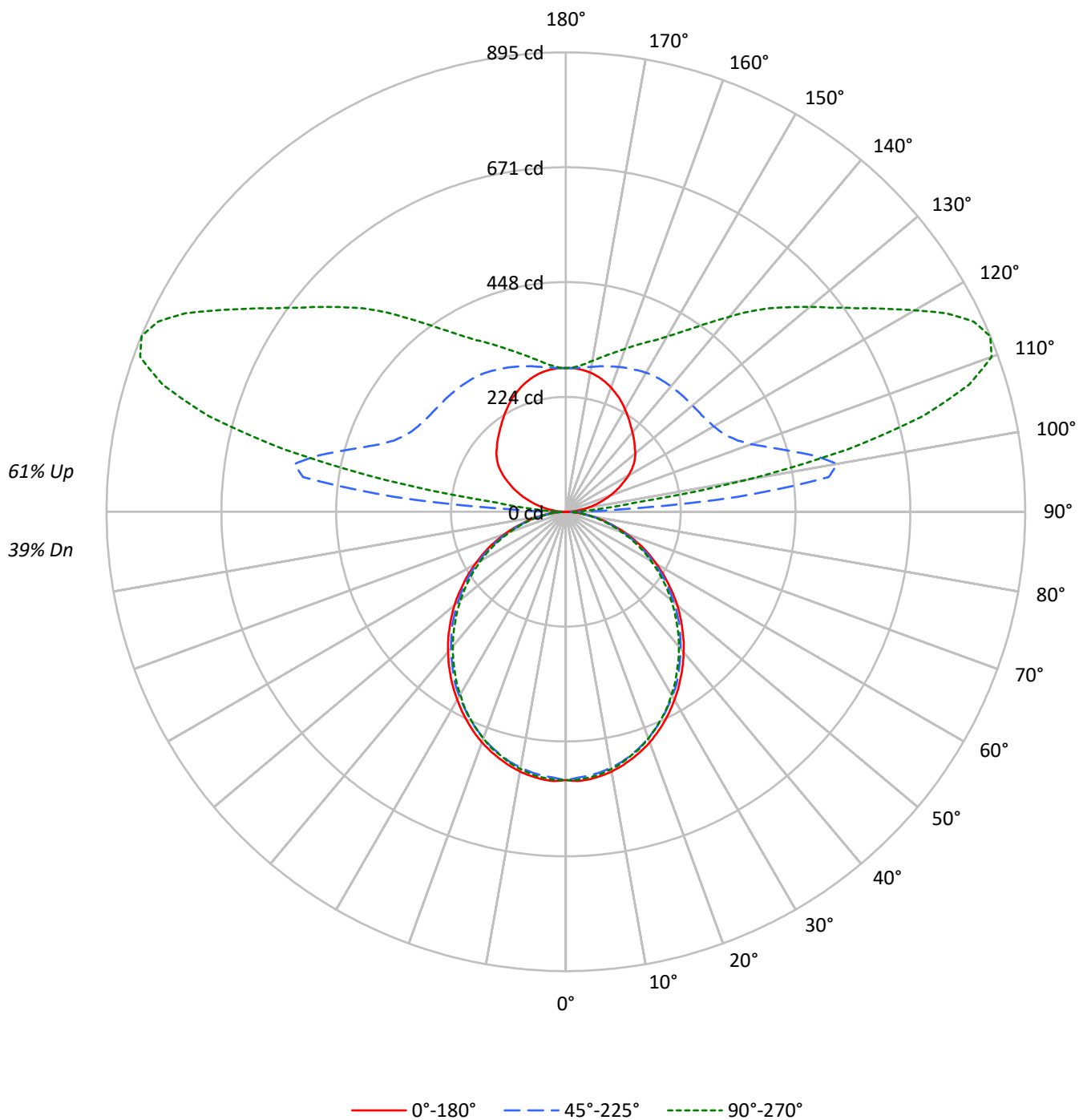
Lumens per Lamp: N/A
Luminaire Lumens: 3472.9 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	95	95	95	95	77	77	77	61	61	61	46	46	46
1	95	91	87	84	87	83	80	77	68	65	63	54	52	51	41	40	39
2	87	79	73	68	79	72	67	63	59	56	52	47	45	42	36	34	33
3	79	70	63	57	72	64	57	52	52	48	44	42	38	36	32	30	28
4	72	62	54	48	65	56	50	44	46	41	37	37	33	31	28	26	24
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18
7	56	44	36	31	51	41	34	29	34	28	25	27	23	20	21	18	16
8	52	40	33	27	47	37	30	25	31	25	22	25	21	18	19	17	15
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13
10	45	33	26	22	41	31	24	20	26	21	17	21	17	15	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5628	5628	5628
5°	5643	5435	5427
10°	5593	5251	5197
15°	5515	5060	4947
20°	5426	4847	4699
25°	5311	4623	4433
30°	5184	4391	4154
35°	5052	4155	3877
40°	4913	3905	3604
45°	4761	3664	3320
50°	4607	3393	3033
55°	4408	3112	2745
60°	4203	2800	2437
65°	4010	2466	2114
70°	3734	2093	1739
75°	3336	1656	1350
80°	2883	1164	956
85°	2248	627	479

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4761 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	1.4
10°-20°	139.2	4.0
20°-30°	205.6	5.9
30°-40°	240.1	6.9
40°-50°	241.4	7.0
50°-60°	212.1	6.1
60°-70°	157.9	4.5
70°-80°	89.9	2.6
80°-90°	27.1	0.8
90°-100°	159.1	4.6
100°-110°	444.6	12.8
110°-120°	433.5	12.5
120°-130°	345.2	9.9
130°-140°	272.5	7.8
140°-150°	203.3	5.9
150°-160°	141.8	4.1
160°-170°	83.3	2.4
170°-180°	27.1	0.8
0°-30°	394.1	11.3
0°-40°	634.2	18.3
0°-60°	1087.7	31.3
0°-90°	1362.5	39.2
90°-120°	1037.2	29.9
90°-150°	1858.1	53.5
90°-180°	2110.0	60.8
0°-180°	3472.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	523	523	523	523	523	
5°	523	521	516	521	520	50
15°	498	496	491	494	492	140
25°	452	450	444	444	443	208
35°	391	388	383	380	378	245
45°	321	319	313	308	305	248
55°	243	243	237	232	230	218
65°	166	164	159	156	154	164
75°	88	86	84	82	81	94
85°	23	22	22	22	22	25
90°	1	7	14	16	16	3
95°	19	63	336	98	66	20
105°	66	97	456	797	721	70
115°	116	145	348	764	876	115
125°	162	191	325	589	691	143
135°	189	226	321	485	560	146
145°	216	247	317	398	438	135
155°	245	265	306	348	363	113
165°	268	276	294	311	317	76
175°	279	280	282	286	285	27
180°	280	280	280	280	280	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	522.9	522.9	522.9	522.9	522.9
2.5°	525.2	523.4	518.5	522.9	522.5
5°	523.4	521.1	516.2	520.7	519.8
7.5°	519.4	517.1	512.2	516.2	515.8
10°	514.0	511.7	505.9	509.9	509.0
12.5°	506.8	505.0	499.6	502.3	501.8
15°	498.2	496.4	490.6	494.2	491.5
17.5°	488.8	486.5	480.7	483.4	482.5
20°	478.0	475.3	469.4	471.2	469.9
22.5°	465.8	463.1	457.3	458.6	456.8
25°	452.4	449.7	443.8	444.3	442.9
27.5°	438.4	435.7	429.4	429.9	428.5
30°	423.1	420.9	414.6	414.6	411.4
32.5°	407.8	404.7	400.2	397.0	395.7
35°	391.2	388.5	382.7	380.0	377.7
37.5°	374.6	371.0	365.1	362.0	360.6
40°	357.0	354.3	348.0	344.4	342.6
42.5°	339.5	336.3	330.0	326.4	324.6
45°	320.6	318.8	313.0	307.6	305.3
47.5°	302.2	299.5	294.1	288.7	286.9
50°	283.3	281.0	275.2	270.2	267.5
52.5°	263.5	262.1	255.9	251.8	249.1
55°	243.3	242.8	237.0	232.0	229.8
57.5°	224.4	222.6	218.1	213.6	210.9
60°	203.7	203.2	197.8	193.8	191.6
62.5°	185.3	183.9	178.5	174.5	173.1
65°	165.9	163.7	159.2	155.6	154.2
67.5°	145.2	143.4	139.8	136.7	134.9
70°	126.8	124.1	121.4	118.3	116.0
72.5°	107.5	105.7	102.5	99.8	98.9
75°	87.7	85.9	84.5	82.3	80.9
77.5°	70.1	69.2	67.4	65.6	65.6
80°	53.1	51.7	50.8	50.4	50.4
82.5°	36.4	36.4	36.4	35.5	35.1
85°	23.4	22.5	22.5	21.6	21.6
87.5°	11.7	10.3	9.9	9.4	9.4
90°	1.1	6.8	14.2	15.8	16.4
92.5°	8.5	34.0	105.4	36.0	30.0
95°	19.3	62.6	336.0	98.0	65.7
97.5°	30.6	71.7	516.7	246.5	134.9
100°	41.9	79.0	536.6	515.6	355.3
102.5°	53.8	87.6	499.7	690.4	562.6
105°	65.7	97.2	455.5	796.6	720.7
107.5°	78.2	108.5	416.5	843.4	823.8
110°	91.8	120.2	384.2	844.8	882.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	104.3	132.4	362.6	812.8	894.7
115°	116.2	144.8	348.5	764.0	876.5
117.5°	128.1	156.6	338.8	711.9	836.9
120°	140.5	168.6	332.6	662.6	784.7
122.5°	151.3	179.8	328.6	623.8	736.0
125°	161.5	190.6	325.2	589.2	691.3
127.5°	169.4	200.8	323.5	561.0	652.7
130°	176.8	210.0	321.8	534.8	621.0
132.5°	182.4	218.2	321.3	510.5	589.8
135°	189.2	225.8	320.7	485.2	560.4
137.5°	195.5	232.0	319.6	461.4	529.2
140°	201.7	237.7	319.0	438.2	496.3
142.5°	208.5	242.8	317.9	417.0	465.7
145°	215.9	247.3	316.7	398.0	438.0
147.5°	223.2	252.2	315.0	383.4	414.2
150°	230.6	256.1	312.8	370.3	393.8
152.5°	238.0	260.4	309.9	359.0	376.8
155°	245.3	264.6	306.5	348.5	363.2
157.5°	251.0	268.3	303.7	338.2	350.2
160°	257.8	271.4	300.3	328.9	337.7
162.5°	262.9	273.6	296.9	320.1	326.4
165°	268.0	275.6	293.5	311.4	316.7
167.5°	272.0	277.4	290.1	303.7	307.1
170°	275.4	278.2	286.7	296.9	298.6
172.5°	277.6	279.0	283.9	291.0	290.7
175°	279.3	279.6	281.6	285.6	285.0
177.5°	280.5	279.9	279.9	282.2	281.0
180°	279.9	279.9	279.9	279.9	279.9

(END OF REPORT)