

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: P1011603

Luminaire Tested: S123DIP-B340D585UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011603
REPORT IS A COMBINATION OF REPORTS P989828 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D585UB30-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

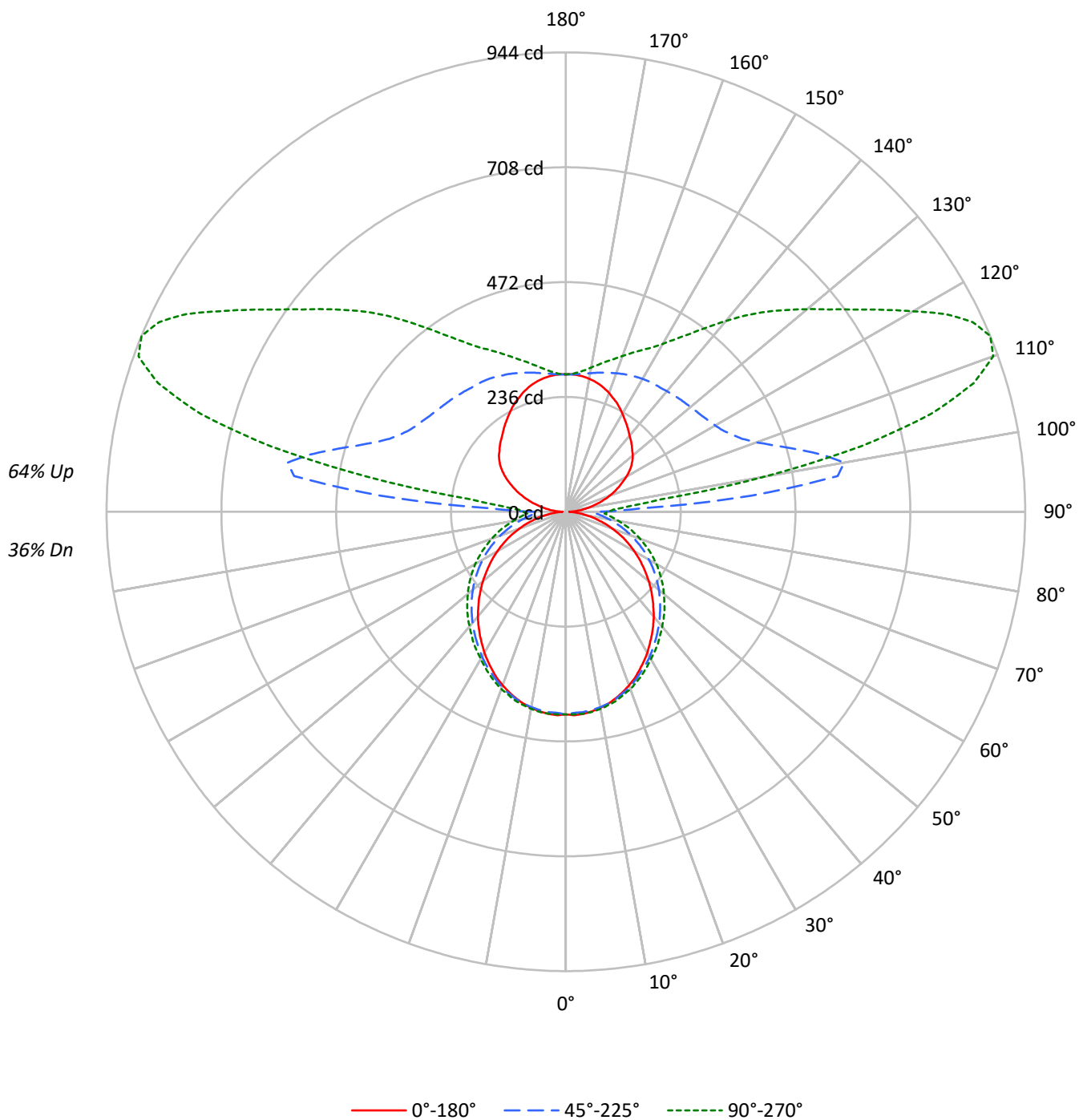
Lumens per Lamp: N/A
Luminaire Lumens: 3528.9 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44
1	94	89	85	82	85	81	77	74	65	63	60	51	49	47	37	36	35
2	85	78	71	66	77	70	65	60	57	53	49	44	41	39	32	31	29
3	78	68	60	55	70	62	55	50	50	45	41	39	35	33	28	26	24
4	71	60	52	46	64	54	47	42	44	39	35	34	31	28	25	23	21
5	65	53	45	39	58	48	41	36	39	34	30	31	27	24	23	20	18
6	60	47	39	34	54	43	36	31	35	30	26	28	24	21	20	18	16
7	55	43	35	29	50	39	32	27	32	26	23	25	21	18	19	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	26	21	26	21	18	21	17	14	16	13	11
10	44	32	25	20	40	29	23	19	24	19	16	19	16	13	15	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4481	4481	4481
5°	4493	4349	4346
10°	4451	4232	4199
15°	4392	4102	4044
20°	4308	3957	3877
25°	4205	3793	3704
30°	4101	3646	3530
35°	3981	3490	3389
40°	3869	3349	3239
45°	3744	3211	3116
50°	3620	3075	2982
55°	3484	2936	2859
60°	3349	2793	2733
65°	3213	2641	2586
70°	3004	2470	2433
75°	2743	2276	2277
80°	2438	2079	2098
85°	2132	1919	1970

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3744 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.5	1.1
10°-20°	112.6	3.2
20°-30°	168.3	4.8
30°-40°	201.0	5.7
40°-50°	210.3	6.0
50°-60°	197.3	5.6
60°-70°	164.8	4.7
70°-80°	117.9	3.3
80°-90°	71.7	2.0
90°-100°	204.5	5.8
100°-110°	480.8	13.6
110°-120°	458.8	13.0
120°-130°	360.5	10.2
130°-140°	280.3	7.9
140°-150°	206.2	5.8
150°-160°	143.0	4.1
160°-170°	84.0	2.4
170°-180°	27.3	0.8
0°-30°	320.4	9.1
0°-40°	521.4	14.8
0°-60°	929.0	26.3
0°-90°	1283.4	36.4
90°-120°	1144.1	32.4
90°-150°	1991.1	56.4
90°-180°	2245.0	63.6
0°-180°	3528.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	416	416	416	416	416	
5°	417	416	413	417	416	40
15°	397	398	398	402	402	112
25°	358	363	364	370	370	165
35°	308	316	322	328	330	193
45°	252	263	274	283	287	194
55°	192	207	224	236	239	172
65°	133	150	170	184	189	131
75°	72	93	116	131	136	77
85°	22	45	69	84	89	23
90°	7	35	66	83	88	6
95°	24	86	384	158	130	24
105°	70	112	493	850	778	74
115°	119	154	375	805	922	118
125°	164	194	342	618	724	146
135°	192	228	329	503	581	148
145°	218	249	319	405	447	137
155°	247	267	309	351	366	114
165°	270	278	296	314	319	76
175°	282	282	284	288	287	27
180°	282	282	282	282	282	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	416.3	416.3	416.3	416.3	416.3
2.5°	418.5	417.2	413.6	417.2	416.7
5°	416.7	415.8	413.1	416.7	416.3
7.5°	413.6	413.6	410.8	415.4	414.9
10°	409.0	409.9	407.7	412.2	411.3
12.5°	403.6	404.9	403.6	407.7	406.7
15°	396.8	398.1	397.7	402.2	401.8
17.5°	388.6	391.3	390.9	395.0	394.1
20°	379.5	382.3	383.2	387.3	387.7
22.5°	370.0	372.7	374.1	379.5	379.1
25°	358.2	362.8	364.1	370.0	370.0
27.5°	346.9	351.9	354.6	359.6	360.0
30°	334.7	340.5	344.2	349.6	349.6
32.5°	321.0	327.8	332.8	338.7	340.1
35°	308.3	315.6	321.5	328.3	330.1
37.5°	294.7	302.9	309.7	317.4	318.8
40°	281.1	289.3	298.4	306.1	307.9
42.5°	266.2	276.6	286.1	294.7	297.5
45°	252.1	263.0	274.3	283.0	286.6
47.5°	237.2	249.4	262.1	271.6	274.3
50°	222.6	235.3	249.4	259.8	263.0
52.5°	207.2	220.8	236.7	247.6	251.7
55°	192.3	207.2	223.6	235.8	239.4
57.5°	177.8	193.2	210.9	223.1	227.2
60°	162.3	178.7	197.3	209.9	214.9
62.5°	147.8	164.6	184.6	197.3	201.8
65°	132.9	150.5	170.5	184.1	188.6
67.5°	117.9	136.5	156.4	171.4	175.0
70°	102.0	121.5	143.3	157.8	162.3
72.5°	87.5	107.0	129.7	144.7	149.2
75°	72.1	93.4	116.1	131.0	136.5
77.5°	58.9	80.3	102.9	118.8	122.9
80°	44.9	67.1	90.7	106.1	110.6
82.5°	32.6	55.3	79.4	94.8	99.3
85°	22.2	44.9	68.9	84.3	88.9
87.5°	13.6	36.3	59.4	74.8	79.4
90°	7.0	35.0	65.5	82.7	87.8
92.5°	14.0	59.2	153.9	98.9	97.0
95°	24.4	85.8	383.8	157.8	129.8
97.5°	35.4	93.2	563.4	304.4	196.3
100°	46.4	98.4	580.7	572.6	415.4
102.5°	57.9	104.6	540.7	745.7	621.4
105°	69.9	112.5	493.4	850.2	777.7
107.5°	82.1	122.1	451.3	894.1	878.5
110°	95.3	132.0	416.4	892.8	934.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	107.8	142.5	392.0	857.4	944.0
115°	119.4	153.7	375.4	805.4	922.5
117.5°	131.4	163.9	363.0	750.2	879.8
120°	143.5	174.1	354.4	697.8	824.0
122.5°	154.4	184.1	348.2	655.9	772.2
125°	164.3	193.7	342.5	618.3	724.4
127.5°	172.3	203.5	338.5	587.0	682.8
130°	179.7	212.6	334.6	558.1	647.6
132.5°	184.9	220.9	331.7	530.8	613.9
135°	191.8	228.2	328.8	503.0	581.1
137.5°	198.0	234.5	325.9	476.4	546.9
140°	203.9	240.2	323.5	450.6	511.5
142.5°	210.8	244.8	320.6	426.5	477.9
145°	218.2	249.4	319.4	405.0	447.1
147.5°	225.1	254.3	317.7	388.0	420.9
150°	232.6	258.2	315.4	373.4	398.1
152.5°	240.0	262.5	312.6	362.0	380.0
155°	247.4	266.9	309.2	351.4	366.3
157.5°	253.1	270.5	306.3	341.2	353.2
160°	260.0	273.8	302.9	331.7	340.6
162.5°	265.1	276.0	299.4	322.9	329.2
165°	270.3	278.0	296.0	314.0	319.4
167.5°	274.3	279.8	292.6	306.3	309.7
170°	277.7	280.6	289.2	299.4	301.2
172.5°	280.0	281.4	286.3	293.4	293.2
175°	281.7	282.0	284.0	288.0	287.4
177.5°	282.9	282.3	282.3	284.6	283.4
180°	282.3	282.3	282.3	282.3	282.3

(END OF REPORT)