

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: P1011601

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011601
REPORT IS A COMBINATION OF REPORTS P989826 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-D
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

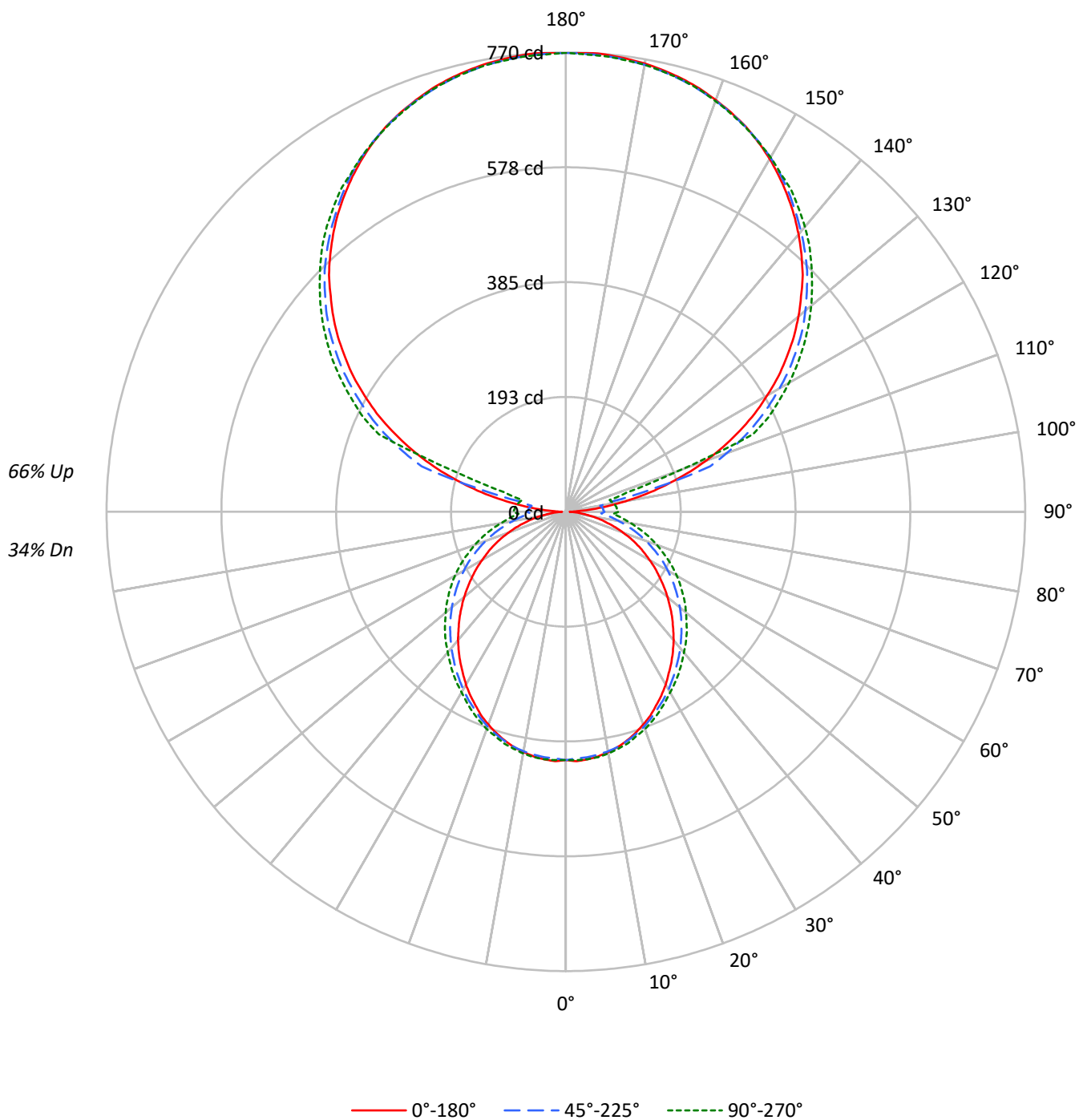
Lumens per Lamp: N/A
Luminaire Lumens: 3746.0 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	103	103	103	103	93	93	93	93	75	75	75	57	57	57	42	42	42
1	94	89	85	81	84	80	77	74	64	62	60	49	48	46	36	35	34
2	85	77	71	66	76	70	64	60	56	52	49	43	40	38	31	29	28
3	77	68	60	54	69	61	55	50	49	44	41	38	34	32	27	25	23
4	70	60	52	46	63	54	47	42	43	38	34	33	30	27	24	22	20
5	65	53	45	39	58	48	41	36	39	33	29	30	26	23	22	19	17
6	59	47	39	33	53	43	36	31	35	29	25	27	23	20	20	17	15
7	55	43	35	29	49	39	32	27	31	26	22	24	21	18	18	15	13
8	51	38	31	26	46	35	28	24	28	23	20	22	18	16	16	14	12
9	47	35	28	23	42	32	25	21	26	21	17	20	17	14	15	12	11
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	14	11	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	3.0
20°-30°	168.3	4.5
30°-40°	201.0	5.4
40°-50°	210.3	5.6
50°-60°	197.3	5.3
60°-70°	164.8	4.4
70°-80°	117.9	3.1
80°-90°	71.7	1.9
90°-100°	71.2	1.9
100°-110°	163.6	4.4
110°-120°	343.1	9.2
120°-130°	420.4	11.2
130°-140°	441.5	11.8
140°-150°	408.8	10.9
150°-160°	328.8	8.8
160°-170°	212.2	5.7
170°-180°	73.1	2.0
0°-30°	320.4	8.6
0°-40°	521.4	13.9
0°-60°	929.0	24.8
0°-90°	1283.4	34.3
90°-120°	577.8	15.4
90°-150°	1848.5	49.3
90°-180°	2463.0	65.8
0°-180°	3746.0	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°	6	34	65	83	88	6
95°	40	34	63	81	85	46
105°	174	191	159	71	76	184
115°	322	331	352	369	375	318
125°	452	456	472	482	487	404
135°	562	565	572	582	582	432
145°	648	651	652	657	659	405
155°	713	712	712	715	712	328
165°	752	750	749	754	750	212
175°	769	766	767	771	766	73
180°	769	769	769	769	769	

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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°	6.5	34.4	64.9	82.7	88.3
92.5°	18.5	34.6	62.5	81.5	86.1
95°	39.9	34.1	62.6	80.6	85.2
97.5°	67.9	68.3	60.5	78.7	83.7
100°	100.7	126.6	58.4	76.0	81.1
102.5°	137.9	158.1	79.0	72.8	78.6
105°	173.9	191.1	159.2	70.7	76.0
107.5°	211.8	226.5	253.6	177.8	107.0
110°	249.6	262.4	286.8	279.7	201.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	286.2	296.6	320.1	336.5	339.5
115°	321.8	330.6	352.1	368.7	374.6
117.5°	357.3	364.9	383.1	398.6	402.8
120°	389.3	396.8	413.4	428.5	431.6
122.5°	422.5	427.4	443.8	456.6	460.3
125°	451.8	456.4	471.8	482.4	486.8
127.5°	481.5	485.6	499.8	510.6	512.6
130°	509.0	513.0	524.4	535.3	536.9
132.5°	534.8	539.3	547.9	558.3	559.7
135°	561.6	564.7	571.8	581.8	582.3
137.5°	584.5	588.7	592.9	603.1	604.2
140°	607.0	610.4	613.4	622.5	623.6
142.5°	628.1	631.0	632.8	640.4	641.0
145°	647.5	651.0	652.2	656.9	658.7
147.5°	665.9	668.8	669.9	672.4	671.4
150°	683.1	684.8	685.9	687.1	686.2
152.5°	698.5	699.1	699.6	701.9	699.1
155°	712.8	711.6	712.2	715.1	711.6
157.5°	724.2	724.2	723.6	727.1	722.5
160°	734.5	733.9	733.4	736.8	732.8
162.5°	744.2	742.5	741.9	745.9	742.5
165°	751.6	749.9	749.4	753.9	749.9
167.5°	757.9	755.6	755.6	760.2	755.6
170°	763.1	760.8	760.8	765.4	760.8
172.5°	766.5	763.6	764.2	768.8	763.6
175°	769.4	766.5	767.1	771.1	766.5
177.5°	770.5	767.6	768.2	772.8	767.1
180°	769.4	769.4	769.4	769.4	769.4

(END OF REPORT)