

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: P1011648

Luminaire Tested: S123DIP-B340D805UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011648
REPORT IS A COMBINATION OF REPORTS P989888 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D805UB30-4F0-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

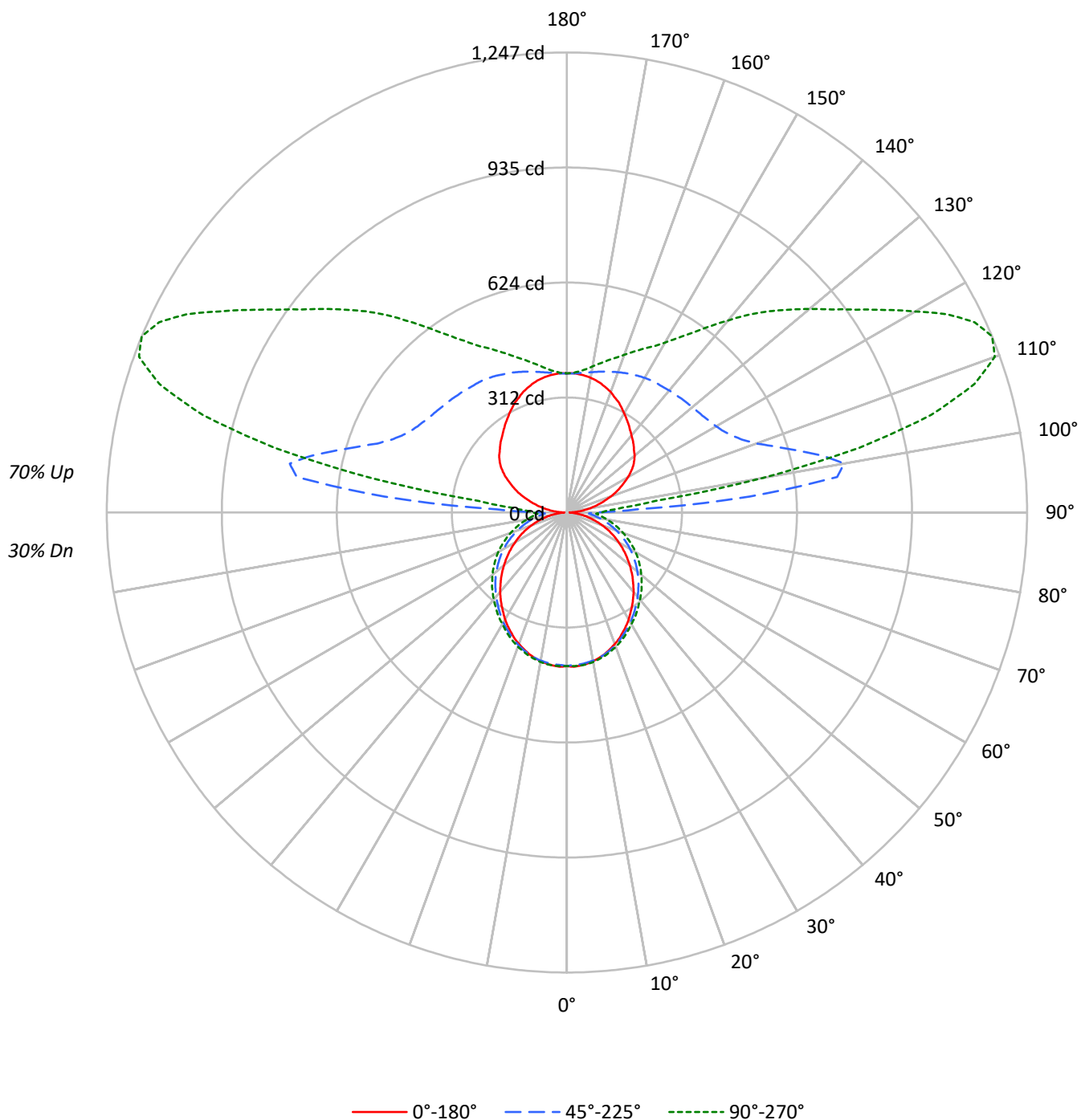
Lumens per Lamp: N/A
Luminaire Lumens: 4244.6 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	38	38	38
1	93	88	84	81	83	79	76	73	62	60	58	47	45	44	32	32	31
2	84	77	70	65	75	69	64	59	54	51	47	41	38	36	28	27	25
3	77	67	60	54	68	60	54	49	48	43	39	36	33	30	25	23	21
4	70	59	51	45	62	53	46	41	42	37	33	32	28	26	22	20	18
5	64	52	44	39	57	47	40	35	37	32	29	28	25	22	20	17	16
6	59	47	39	33	52	42	35	30	34	28	25	25	22	19	18	16	14
7	54	42	34	29	48	38	31	26	30	25	22	23	19	17	16	14	12
8	50	38	31	25	45	34	28	23	28	23	19	21	17	15	15	13	11
9	47	35	27	22	42	31	25	21	25	20	17	19	16	13	14	11	10
10	43	32	25	20	39	29	22	18	23	18	15	18	14	12	13	10	9

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	0.9
10°-20°	112.6	2.7
20°-30°	168.3	4.0
30°-40°	201.0	4.7
40°-50°	210.3	5.0
50°-60°	197.3	4.6
60°-70°	164.8	3.9
70°-80°	117.9	2.8
80°-90°	72.2	1.7
90°-100°	258.4	6.1
100°-110°	631.4	14.9
110°-120°	605.7	14.3
120°-130°	477.5	11.2
130°-140°	372.7	8.8
140°-150°	275.1	6.5
150°-160°	191.1	4.5
160°-170°	112.3	2.6
170°-180°	36.5	0.9
0°-30°	320.4	7.5
0°-40°	521.4	12.3
0°-60°	929.0	21.9
0°-90°	1283.9	30.2
90°-120°	1495.6	35.2
90°-150°	2620.8	61.7
90°-180°	2961.0	69.8
0°-180°	4244.6	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	37	70	88	93	6
95°	31	107	498	191	152	31
105°	92	145	648	1120	1022	98
115°	159	203	494	1064	1220	157
125°	219	258	453	818	959	195
135°	256	305	438	668	771	198
145°	291	333	427	540	596	183
155°	331	356	413	470	489	152
165°	361	371	396	420	427	102
175°	376	377	379	385	384	36
180°	377	377	377	377	377	

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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°	7.4	37.2	70.3	88.1	93.3
92.5°	16.9	70.7	189.6	111.1	107.2
95°	31.0	107.0	497.6	191.0	152.1
97.5°	45.7	117.5	738.5	387.9	242.0
100°	60.6	125.1	762.5	747.3	535.8
102.5°	76.1	134.2	710.1	979.7	812.1
105°	92.2	145.4	647.8	1120.1	1021.9
107.5°	108.6	158.9	592.4	1179.9	1157.7
110°	126.4	172.8	546.6	1179.1	1233.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	143.2	187.4	514.9	1132.8	1247.2
115°	158.8	202.8	493.5	1064.4	1219.6
117.5°	174.8	217.0	477.8	991.4	1163.4
120°	191.1	231.2	467.1	922.4	1090.0
122.5°	205.6	245.1	459.6	867.4	1021.6
125°	219.0	258.3	452.7	818.0	958.6
127.5°	229.7	271.5	448.1	777.2	904.0
130°	239.6	283.8	443.6	739.3	858.0
132.5°	246.7	294.8	440.6	703.7	813.7
135°	255.9	304.7	437.5	667.5	771.0
137.5°	264.3	313.2	434.2	632.7	726.3
140°	272.3	320.8	431.6	599.1	679.7
142.5°	281.4	327.2	428.3	567.8	635.8
145°	291.4	333.2	426.8	539.9	595.5
147.5°	300.8	339.8	424.5	517.9	561.3
150°	310.7	345.0	421.4	499.0	531.5
152.5°	320.6	350.8	417.6	483.6	507.7
155°	330.6	356.5	413.0	469.5	489.4
157.5°	338.2	361.5	409.2	455.8	471.8
160°	347.4	365.7	404.6	443.2	455.0
162.5°	354.2	368.8	400.0	431.4	439.7
165°	361.1	371.4	395.5	419.5	426.8
167.5°	366.5	373.7	390.9	409.2	413.8
170°	371.0	374.8	386.3	400.0	402.3
172.5°	374.1	376.0	382.5	392.0	391.6
175°	376.4	376.8	379.4	384.8	384.0
177.5°	377.9	377.1	377.1	380.2	378.7
180°	377.1	377.1	377.1	377.1	377.1

(END OF REPORT)