

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: P1011663

Luminaire Tested: S123DIP-B340D805UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011663
REPORT IS A COMBINATION OF REPORTS P989906 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D805UB40-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

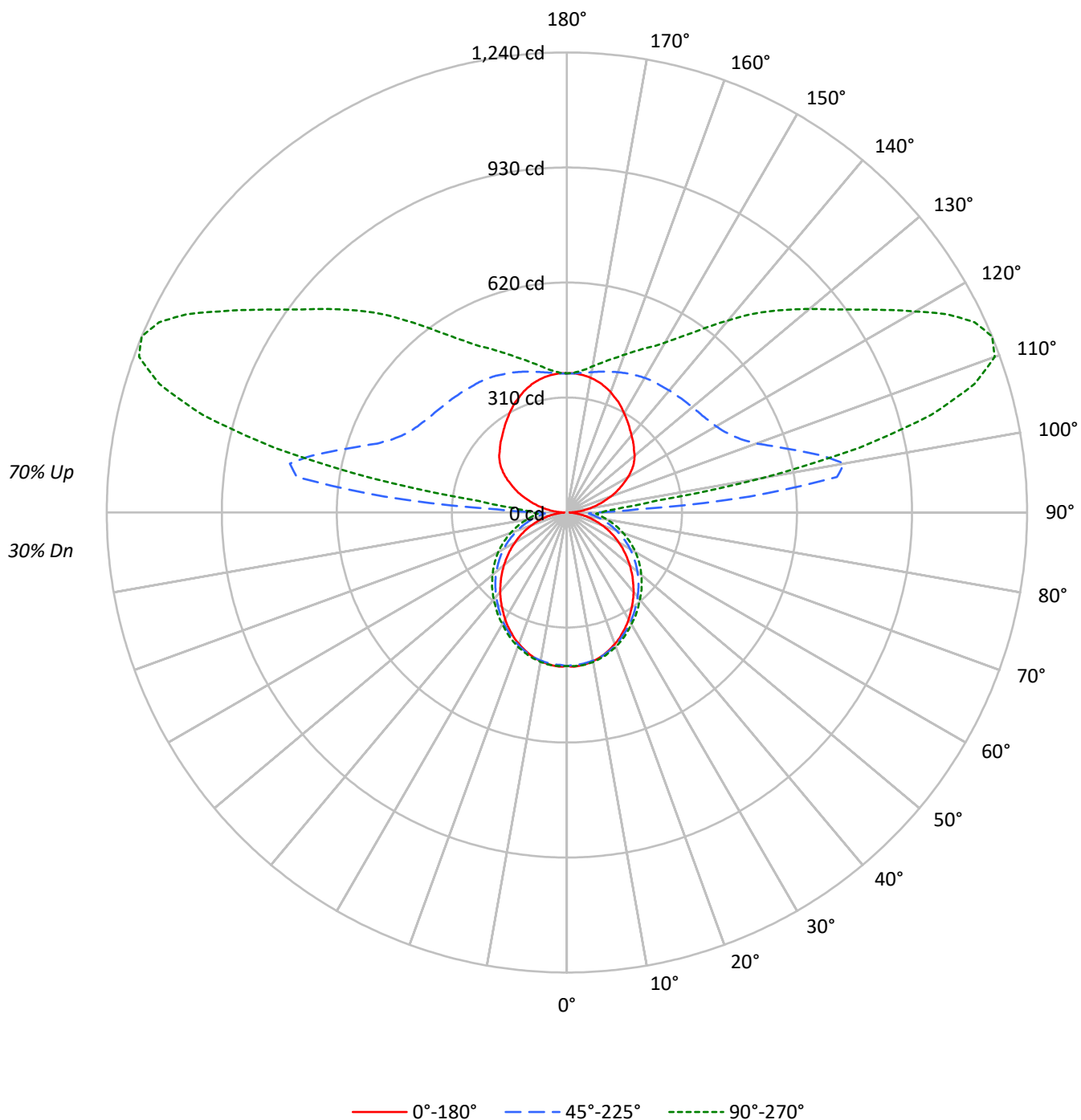
Lumens per Lamp: N/A
Luminaire Lumens: 4220.6 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	4455	4455	4455
5°	4467	4324	4321
10°	4426	4207	4175
15°	4367	4078	4021
20°	4284	3934	3855
25°	4182	3771	3683
30°	4076	3624	3510
35°	3960	3471	3369
40°	3847	3329	3220
45°	3723	3193	3098
50°	3600	3058	2965
55°	3464	2919	2844
60°	3330	2776	2718
65°	3193	2625	2572
70°	2986	2456	2420
75°	2727	2262	2264
80°	2421	2068	2086
85°	2123	1908	1959

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3723 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.3	0.9
10°-20°	111.9	2.7
20°-30°	167.4	4.0
30°-40°	199.8	4.7
40°-50°	209.1	5.0
50°-60°	196.2	4.6
60°-70°	163.9	3.9
70°-80°	117.2	2.8
80°-90°	71.8	1.7
90°-100°	256.9	6.1
100°-110°	627.9	14.9
110°-120°	602.3	14.3
120°-130°	474.8	11.2
130°-140°	370.6	8.8
140°-150°	273.5	6.5
150°-160°	190.0	4.5
160°-170°	111.6	2.6
170°-180°	36.3	0.9
0°-30°	318.6	7.5
0°-40°	518.4	12.3
0°-60°	923.7	21.9
0°-90°	1276.6	30.2
90°-120°	1487.2	35.2
90°-150°	2606.1	61.7
90°-180°	2944.0	69.8
0°-180°	4220.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	414	414	414	414	414	
5°	414	413	411	414	414	39
15°	394	396	395	400	400	111
25°	356	361	362	368	368	164
35°	307	314	320	326	328	192
45°	251	262	273	281	285	193
55°	191	206	222	234	238	171
65°	132	150	170	183	188	131
75°	72	93	115	130	136	77
85°	22	45	68	84	88	23
90°	7	37	70	88	93	6
95°	31	106	495	190	151	31
105°	92	145	644	1114	1016	97
115°	158	202	491	1058	1213	156
125°	218	257	450	813	953	194
135°	254	303	435	664	767	197
145°	290	331	424	537	592	181
155°	329	354	411	467	487	151
165°	359	369	393	417	424	101
175°	374	375	377	383	382	36
180°	375	375	375	375	375	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	413.9	413.9	413.9	413.9	413.9
2.5°	416.1	414.8	411.2	414.8	414.3
5°	414.3	413.4	410.7	414.3	413.9
7.5°	411.2	411.2	408.5	413.0	412.5
10°	406.7	407.6	405.3	409.8	408.9
12.5°	401.3	402.6	401.3	405.3	404.4
15°	394.5	395.9	395.4	399.9	399.5
17.5°	386.4	389.1	388.6	392.7	391.8
20°	377.4	380.1	381.0	385.0	385.5
22.5°	367.9	370.6	372.0	377.4	376.9
25°	356.2	360.7	362.0	367.9	367.9
27.5°	344.9	349.9	352.6	357.5	358.0
30°	332.7	338.6	342.2	347.6	347.6
32.5°	319.2	326.0	330.9	336.8	338.1
35°	306.6	313.8	319.7	326.4	328.2
37.5°	293.1	301.2	307.9	315.6	317.0
40°	279.5	287.7	296.7	304.3	306.1
42.5°	264.7	275.0	284.5	293.1	295.8
45°	250.7	261.5	272.8	281.3	284.9
47.5°	235.8	248.0	260.6	270.1	272.8
50°	221.4	234.0	248.0	258.3	261.5
52.5°	206.0	219.6	235.4	246.2	250.2
55°	191.2	206.0	222.3	234.4	238.1
57.5°	176.7	192.1	209.7	221.8	225.9
60°	161.4	177.6	196.1	208.7	213.7
62.5°	147.0	163.7	183.5	196.1	200.6
65°	132.1	149.7	169.5	183.1	187.6
67.5°	117.2	135.7	155.5	170.4	174.0
70°	101.4	120.8	142.5	156.9	161.4
72.5°	87.0	106.4	128.9	143.8	148.3
75°	71.7	92.9	115.4	130.3	135.7
77.5°	58.6	79.8	102.3	118.1	122.2
80°	44.6	66.7	90.2	105.5	110.0
82.5°	32.5	55.0	78.9	94.2	98.7
85°	22.1	44.6	68.5	83.9	88.4
87.5°	13.5	36.1	59.1	74.4	78.9
90°	7.4	37.2	69.9	87.6	92.8
92.5°	16.8	70.4	188.5	110.4	106.5
95°	30.8	106.4	494.8	190.0	151.2
97.5°	45.5	116.8	734.2	385.8	240.7
100°	60.3	124.4	758.1	743.1	532.8
102.5°	75.7	133.5	706.1	974.1	807.5
105°	91.7	144.6	644.2	1113.8	1016.1
107.5°	108.0	158.0	589.1	1173.2	1151.1
110°	125.7	171.8	543.6	1172.5	1226.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	142.4	186.2	512.1	1126.4	1240.2
115°	157.9	201.6	490.8	1058.4	1212.7
117.5°	173.9	215.8	475.2	985.9	1156.9
120°	190.1	230.0	464.5	917.2	1083.9
122.5°	204.5	243.8	457.0	862.4	1015.9
125°	217.8	256.8	450.1	813.4	953.3
127.5°	228.4	270.0	445.7	772.8	898.8
130°	238.3	282.2	441.1	735.1	853.2
132.5°	245.3	293.2	438.1	699.8	809.2
135°	254.5	303.0	435.1	663.7	766.6
137.5°	262.8	311.4	431.8	629.2	722.1
140°	270.8	319.0	429.2	595.8	675.8
142.5°	279.9	325.3	425.9	564.6	632.1
145°	289.7	331.4	424.4	536.9	592.2
147.5°	299.1	337.8	422.1	514.9	558.1
150°	309.0	343.2	419.0	496.1	528.5
152.5°	318.8	348.8	415.3	480.9	504.8
155°	328.7	354.5	410.7	466.8	486.6
157.5°	336.3	359.5	406.9	453.2	469.2
160°	345.4	363.6	402.3	440.6	452.5
162.5°	352.2	366.6	397.8	428.9	437.3
165°	359.1	369.4	393.2	417.2	424.4
167.5°	364.4	371.6	388.7	406.9	411.5
170°	368.9	372.8	384.1	397.8	400.1
172.5°	372.0	373.9	380.3	389.8	389.4
175°	374.3	374.6	377.3	382.6	381.9
177.5°	375.8	375.0	375.0	378.1	376.5
180°	375.0	375.0	375.0	375.0	375.0

(END OF REPORT)