

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: P1011639

Luminaire Tested: S123DIP-B340D805UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011639
REPORT IS A COMBINATION OF REPORTS P989864 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D805UB27-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

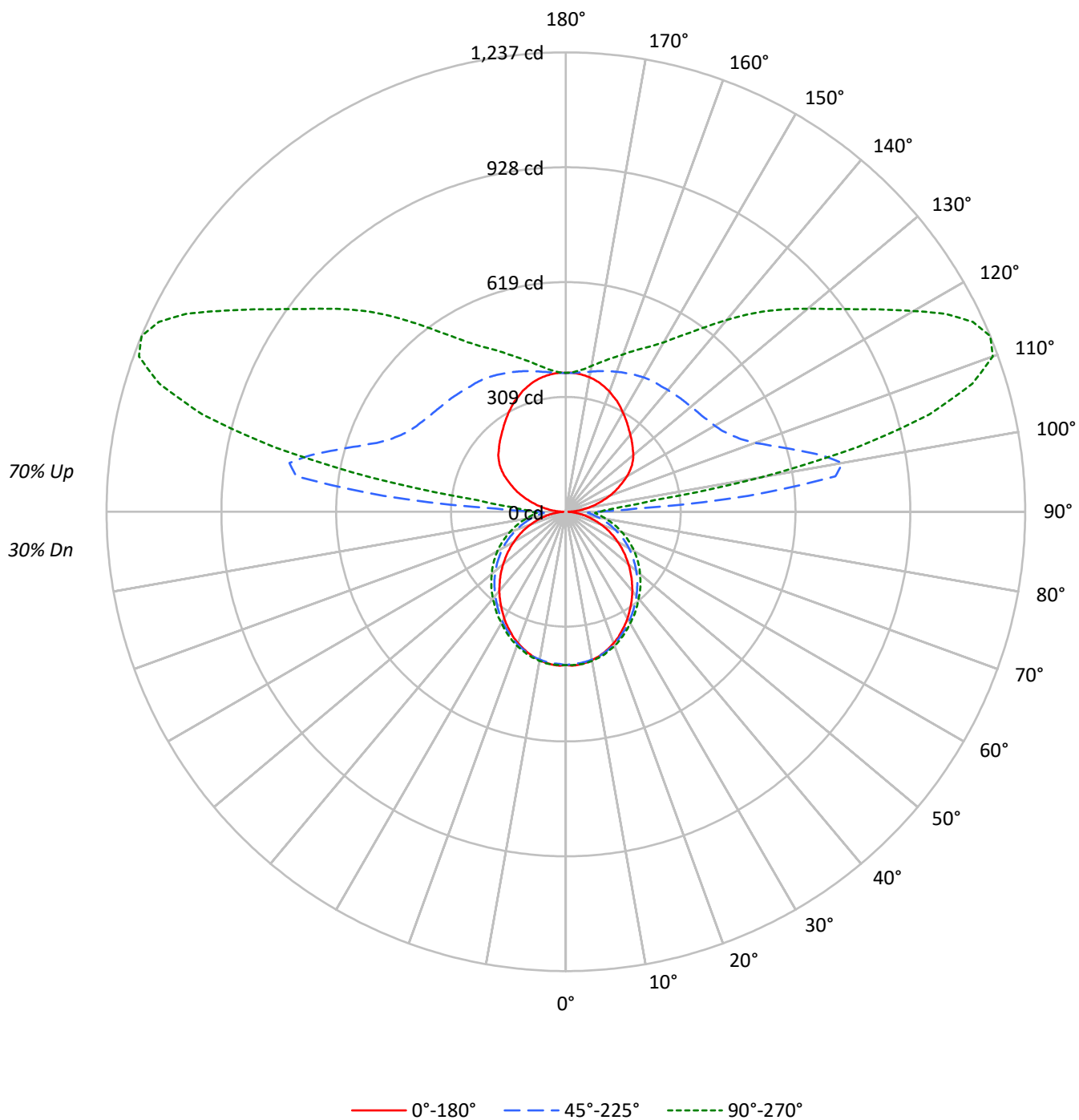
Lumens per Lamp: N/A
Luminaire Lumens: 4208.5 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	4442	4442	4442
5°	4455	4312	4308
10°	4413	4196	4164
15°	4355	4066	4009
20°	4272	3923	3844
25°	4170	3760	3672
30°	4065	3614	3500
35°	3948	3460	3360
40°	3836	3319	3212
45°	3713	3184	3089
50°	3589	3049	2956
55°	3454	2910	2835
60°	3320	2769	2710
65°	3184	2617	2564
70°	2980	2450	2412
75°	2720	2256	2257
80°	2416	2061	2080
85°	2113	1902	1953

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3713 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.2	0.9
10°-20°	111.6	2.7
20°-30°	166.9	4.0
30°-40°	199.3	4.7
40°-50°	208.5	5.0
50°-60°	195.6	4.6
60°-70°	163.4	3.9
70°-80°	116.9	2.8
80°-90°	71.6	1.7
90°-100°	256.2	6.1
100°-110°	626.1	14.9
110°-120°	600.6	14.3
120°-130°	473.4	11.2
130°-140°	369.5	8.8
140°-150°	272.7	6.5
150°-160°	189.5	4.5
160°-170°	111.3	2.6
170°-180°	36.2	0.9
0°-30°	317.7	7.5
0°-40°	516.9	12.3
0°-60°	921.1	21.9
0°-90°	1273.0	30.2
90°-120°	1482.9	35.2
90°-150°	2598.5	61.7
90°-180°	2936.0	69.8
0°-180°	4208.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	413	413	413	413	413	
5°	413	412	410	413	413	39
15°	393	395	394	399	398	111
25°	355	360	361	367	367	164
35°	306	313	319	326	327	191
45°	250	261	272	280	284	193
55°	191	206	222	234	237	171
65°	132	149	169	182	187	130
75°	72	93	115	130	135	76
85°	22	44	68	84	88	23
90°	7	37	70	87	93	6
95°	31	106	493	189	151	31
105°	91	144	642	1111	1013	97
115°	157	201	489	1055	1209	156
125°	217	256	449	811	950	193
135°	254	302	434	662	764	196
145°	289	330	423	535	591	181
155°	328	354	410	466	485	151
165°	358	368	392	416	423	101
175°	373	374	376	382	381	35
180°	374	374	374	374	374	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	412.7	412.7	412.7	412.7	412.7
2.5°	414.9	413.6	410.0	413.6	413.2
5°	413.2	412.3	409.6	413.2	412.7
7.5°	410.0	410.0	407.3	411.8	411.4
10°	405.5	406.4	404.2	408.7	407.8
12.5°	400.1	401.5	400.1	404.2	403.3
15°	393.4	394.7	394.3	398.8	398.3
17.5°	385.3	388.0	387.5	391.6	390.7
20°	376.3	379.0	379.9	383.9	384.4
22.5°	366.8	369.5	370.9	376.3	375.8
25°	355.2	359.7	361.0	366.8	366.8
27.5°	343.9	348.9	351.6	356.5	357.0
30°	331.8	337.6	341.2	346.6	346.6
32.5°	318.3	325.0	330.0	335.8	337.2
35°	305.7	312.9	318.7	325.5	327.3
37.5°	292.2	300.3	307.1	314.7	316.0
40°	278.7	286.8	295.8	303.5	305.3
42.5°	263.9	274.2	283.7	292.2	294.9
45°	250.0	260.7	272.0	280.5	284.1
47.5°	235.1	247.3	259.8	269.3	272.0
50°	220.7	233.3	247.3	257.6	260.7
52.5°	205.5	218.9	234.7	245.5	249.5
55°	190.6	205.5	221.6	233.8	237.4
57.5°	176.2	191.5	209.0	221.2	225.2
60°	160.9	177.1	195.6	208.1	213.1
62.5°	146.6	163.2	183.0	195.6	200.1
65°	131.7	149.3	169.0	182.5	187.0
67.5°	116.9	135.3	155.1	169.9	173.5
70°	101.2	120.5	142.1	156.4	160.9
72.5°	86.8	106.1	128.6	143.4	147.9
75°	71.5	92.6	115.1	129.9	135.3
77.5°	58.4	79.6	102.1	117.8	121.8
80°	44.5	66.5	89.9	105.2	109.7
82.5°	32.4	54.8	78.7	94.0	98.5
85°	22.0	44.5	68.3	83.6	88.1
87.5°	13.5	36.0	58.9	74.2	78.7
90°	7.3	37.0	69.7	87.3	92.6
92.5°	16.8	70.1	188.0	110.0	106.2
95°	30.6	106.2	493.4	189.4	150.7
97.5°	45.4	116.4	732.2	384.6	240.0
100°	60.0	124.0	756.0	741.0	531.2
102.5°	75.5	133.1	704.1	971.4	805.2
105°	91.4	144.2	642.3	1110.6	1013.3
107.5°	107.6	157.5	587.4	1170.0	1147.9
110°	125.3	171.3	542.0	1169.2	1223.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	142.0	185.8	510.6	1123.2	1236.7
115°	157.4	201.0	489.4	1055.4	1209.3
117.5°	173.3	215.1	473.8	983.0	1153.6
120°	189.5	229.2	463.3	914.5	1080.8
122.5°	203.9	243.0	455.7	860.0	1013.0
125°	217.0	256.0	448.9	811.1	950.5
127.5°	227.6	269.2	444.3	770.5	896.4
130°	237.5	281.3	439.9	733.0	850.8
132.5°	244.7	292.4	436.8	697.8	806.9
135°	253.7	302.0	433.9	661.8	764.4
137.5°	262.1	310.4	430.5	627.4	720.0
140°	269.9	318.0	428.0	594.0	673.9
142.5°	279.0	324.4	424.7	562.9	630.3
145°	288.8	330.4	423.2	535.4	590.6
147.5°	298.3	336.8	420.9	513.4	556.5
150°	308.1	342.2	417.9	494.7	527.0
152.5°	317.9	347.8	414.1	479.6	503.4
155°	327.8	353.5	409.5	465.6	485.2
157.5°	335.3	358.5	405.7	451.9	467.8
160°	344.4	362.6	401.2	439.4	451.2
162.5°	351.2	365.6	396.7	427.7	436.0
165°	358.1	368.2	392.1	416.0	423.2
167.5°	363.4	370.5	387.6	405.8	410.3
170°	367.9	371.6	383.0	396.6	398.9
172.5°	370.9	372.8	379.3	388.7	388.3
175°	373.2	373.6	376.2	381.5	380.8
177.5°	374.7	374.0	374.0	377.0	375.5
180°	374.0	374.0	374.0	374.0	374.0

(END OF REPORT)