

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: P1011642

Luminaire Tested: S123DIP-B340D805UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011642
REPORT IS A COMBINATION OF REPORTS P989867 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-F4
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

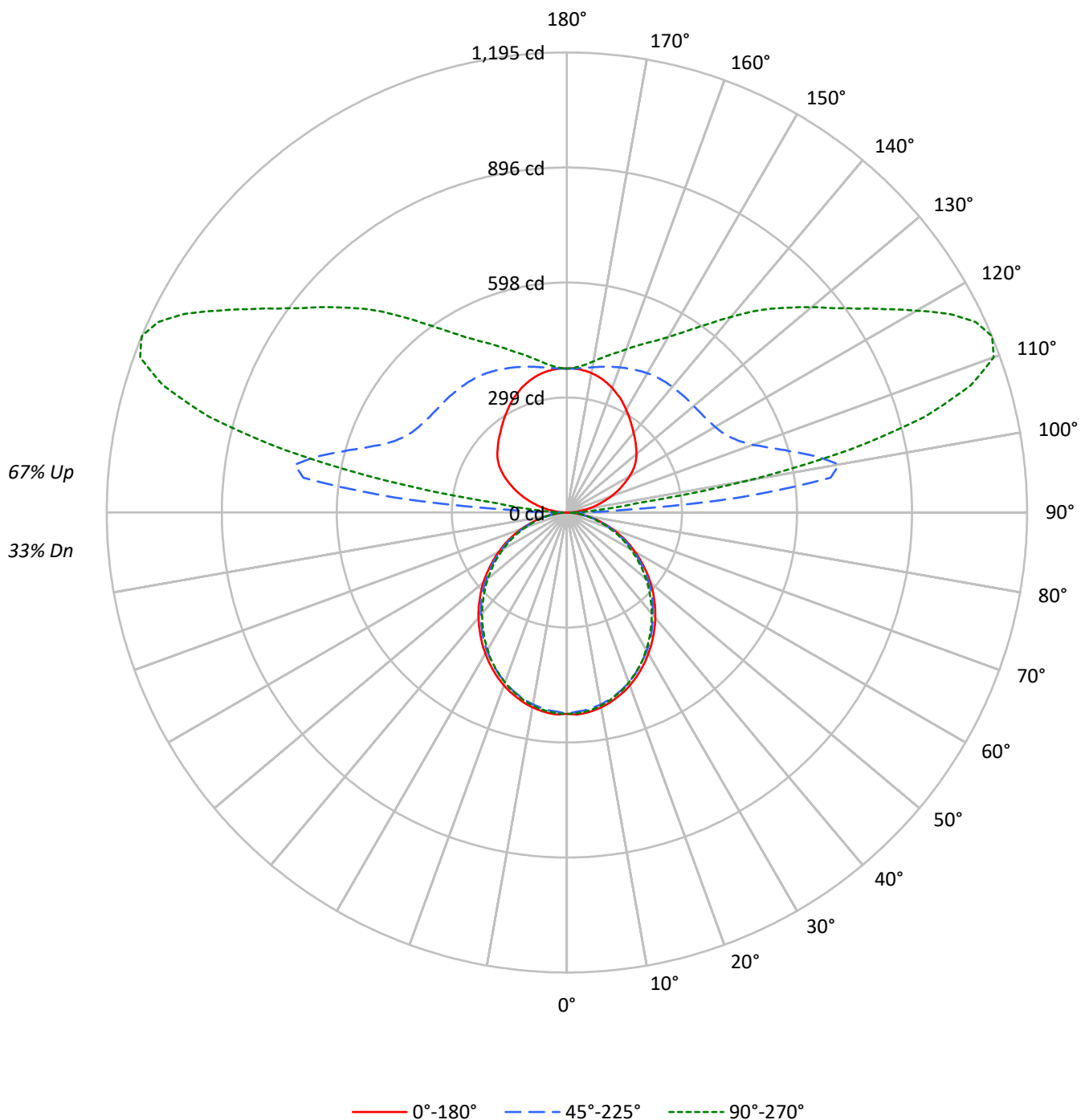
Lumens per Lamp: N/A
Luminaire Lumens: 4182.5 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40
1	94	90	86	82	84	81	78	75	64	62	60	49	48	47	35	35	34
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	30	28
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	28	26	24
4	71	61	53	47	64	55	48	43	44	39	35	34	31	28	25	22	21
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	20	18
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	18	16
7	55	43	36	30	50	39	33	28	32	27	23	25	21	19	18	16	14
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13
9	48	36	28	24	43	33	26	22	27	22	18	21	17	15	15	13	11
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5628	5628	5628
5°	5643	5435	5427
10°	5593	5251	5197
15°	5515	5060	4947
20°	5426	4847	4699
25°	5311	4623	4433
30°	5184	4391	4154
35°	5052	4155	3877
40°	4913	3905	3604
45°	4761	3664	3320
50°	4607	3393	3033
55°	4408	3112	2745
60°	4203	2800	2437
65°	4010	2466	2114
70°	3734	2093	1739
75°	3336	1656	1350
80°	2883	1164	956
85°	2248	627	479

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4761 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	1.2
10°-20°	139.2	3.3
20°-30°	205.6	4.9
30°-40°	240.1	5.7
40°-50°	241.4	5.8
50°-60°	212.1	5.1
60°-70°	157.9	3.8
70°-80°	89.9	2.1
80°-90°	27.6	0.7
90°-100°	212.5	5.1
100°-110°	594.0	14.2
110°-120°	579.2	13.8
120°-130°	461.2	11.0
130°-140°	364.0	8.7
140°-150°	271.6	6.5
150°-160°	189.5	4.5
160°-170°	111.3	2.7
170°-180°	36.2	0.9
0°-30°	394.1	9.4
0°-40°	634.2	15.2
0°-60°	1087.7	26.0
0°-90°	1363.1	32.6
90°-120°	1385.7	33.1
90°-150°	2482.5	59.4
90°-180°	2819.0	67.4
0°-180°	4182.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	523	523	523	523	523	
5°	523	521	516	521	520	50
15°	498	496	491	494	492	140
25°	452	450	444	444	443	208
35°	391	388	383	380	378	245
45°	321	319	313	308	305	248
55°	243	243	237	232	230	218
65°	166	164	159	156	154	164
75°	88	86	84	82	81	94
85°	23	22	22	22	22	25
90°	2	9	19	21	22	4
95°	26	84	449	131	88	27
105°	88	130	609	1064	963	93
115°	155	193	466	1021	1171	154
125°	216	255	434	787	924	192
135°	253	302	428	648	749	195
145°	288	330	423	532	585	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°	522.9	522.9	522.9	522.9	522.9
2.5°	525.2	523.4	518.5	522.9	522.5
5°	523.4	521.1	516.2	520.7	519.8
7.5°	519.4	517.1	512.2	516.2	515.8
10°	514.0	511.7	505.9	509.9	509.0
12.5°	506.8	505.0	499.6	502.3	501.8
15°	498.2	496.4	490.6	494.2	491.5
17.5°	488.8	486.5	480.7	483.4	482.5
20°	478.0	475.3	469.4	471.2	469.9
22.5°	465.8	463.1	457.3	458.6	456.8
25°	452.4	449.7	443.8	444.3	442.9
27.5°	438.4	435.7	429.4	429.9	428.5
30°	423.1	420.9	414.6	414.6	411.4
32.5°	407.8	404.7	400.2	397.0	395.7
35°	391.2	388.5	382.7	380.0	377.7
37.5°	374.6	371.0	365.1	362.0	360.6
40°	357.0	354.3	348.0	344.4	342.6
42.5°	339.5	336.3	330.0	326.4	324.6
45°	320.6	318.8	313.0	307.6	305.3
47.5°	302.2	299.5	294.1	288.7	286.9
50°	283.3	281.0	275.2	270.2	267.5
52.5°	263.5	262.1	255.9	251.8	249.1
55°	243.3	242.8	237.0	232.0	229.8
57.5°	224.4	222.6	218.1	213.6	210.9
60°	203.7	203.2	197.8	193.8	191.6
62.5°	185.3	183.9	178.5	174.5	173.1
65°	165.9	163.7	159.2	155.6	154.2
67.5°	145.2	143.4	139.8	136.7	134.9
70°	126.8	124.1	121.4	118.3	116.0
72.5°	107.5	105.7	102.5	99.8	98.9
75°	87.7	85.9	84.5	82.3	80.9
77.5°	70.1	69.2	67.4	65.6	65.6
80°	53.1	51.7	50.8	50.4	50.4
82.5°	36.4	36.4	36.4	35.5	35.1
85°	23.4	22.5	22.5	21.6	21.6
87.5°	11.7	10.3	9.9	9.4	9.4
90°	1.5	9.0	18.9	21.2	22.0
92.5°	11.4	45.4	140.8	48.0	40.1
95°	25.7	83.6	448.9	131.0	87.8
97.5°	40.9	95.8	690.4	329.2	180.2
100°	56.0	105.6	716.9	688.8	474.6
102.5°	71.9	117.0	667.7	922.4	751.7
105°	87.8	129.8	608.6	1064.4	962.9
107.5°	104.5	145.0	556.4	1126.8	1100.7
110°	122.6	160.5	513.2	1128.7	1179.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	139.3	176.8	484.5	1086.0	1195.3
115°	155.2	193.4	465.6	1020.8	1171.1
117.5°	171.1	209.3	452.7	951.2	1118.1
120°	187.7	225.2	444.4	885.3	1048.4
122.5°	202.1	240.4	439.1	833.4	983.3
125°	215.7	254.7	434.5	787.3	923.5
127.5°	226.3	268.4	432.2	749.4	872.1
130°	236.2	280.4	430.0	714.6	829.7
132.5°	243.8	291.5	429.2	682.0	788.0
135°	252.8	301.6	428.5	648.3	748.7
137.5°	261.2	310.0	426.9	616.6	707.0
140°	269.5	317.6	426.2	585.6	663.1
142.5°	278.6	324.4	424.7	557.2	622.2
145°	288.4	330.4	423.2	531.8	585.2
147.5°	298.3	336.8	420.9	512.2	553.4
150°	308.1	342.2	417.9	494.7	526.1
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)