

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: P1011655

Luminaire Tested: S123DIP-B340D805UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011655
REPORT IS A COMBINATION OF REPORTS P989897 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D805UB35-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

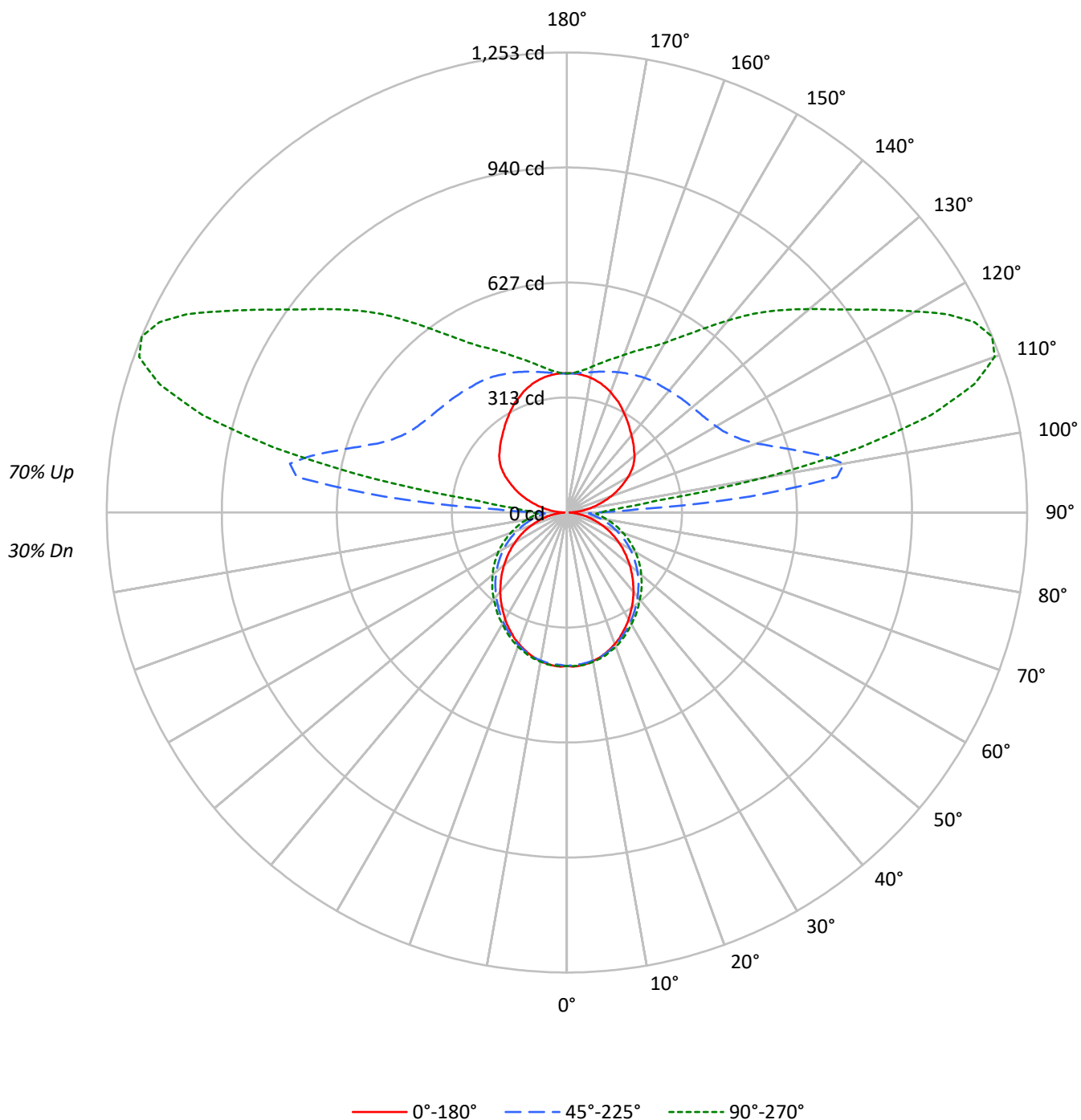
Lumens per Lamp: N/A
Luminaire Lumens: 4263.6 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

TEST NUMBER: P1011655

CATALOG NUMBER: S123DIP-B340D805UB35-4F0-XX-W2A-D4

Luminous Intensity Polar Plot



TEST NUMBER: P1011655

CATALOG NUMBER: S123DIP-B340D805UB35-4F0-XX-W2A-D4

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°	4500	4500	4500
5°	4512	4368	4365
10°	4470	4250	4217
15°	4411	4119	4061
20°	4327	3973	3894
25°	4224	3809	3720
30°	4118	3660	3545
35°	4000	3505	3403
40°	3885	3363	3253
45°	3760	3225	3129
50°	3636	3089	2995
55°	3499	2948	2872
60°	3363	2805	2746
65°	3225	2652	2597
70°	3019	2481	2444
75°	2754	2286	2287
80°	2448	2088	2107
85°	2142	1927	1979

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3760 cd/sqm

TEST NUMBER: P1011655

CATALOG NUMBER: S123DIP-B340D805UB35-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.7	0.9
10°-20°	113.1	2.7
20°-30°	169.1	4.0
30°-40°	201.9	4.7
40°-50°	211.2	5.0
50°-60°	198.2	4.6
60°-70°	165.5	3.9
70°-80°	118.4	2.8
80°-90°	72.6	1.7
90°-100°	259.6	6.1
100°-110°	634.3	14.9
110°-120°	608.5	14.3
120°-130°	479.6	11.2
130°-140°	374.4	8.8
140°-150°	276.3	6.5
150°-160°	192.0	4.5
160°-170°	112.8	2.6
170°-180°	36.7	0.9
0°-30°	321.8	7.5
0°-40°	523.6	12.3
0°-60°	933.0	21.9
0°-90°	1289.5	30.2
90°-120°	1502.4	35.2
90°-150°	2632.7	61.7
90°-180°	2974.0	69.8
0°-180°	4263.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	418	418	418	418	418	
5°	418	418	415	418	418	40
15°	398	400	399	404	404	112
25°	360	364	366	372	372	166
35°	310	317	323	330	332	194
45°	253	264	276	284	288	195
55°	193	208	224	237	240	173
65°	133	151	171	185	189	132
75°	72	94	117	132	137	77
85°	22	45	69	85	89	23
90°	7	37	71	88	94	6
95°	31	108	500	192	153	32
105°	93	146	651	1125	1027	98
115°	160	204	496	1069	1225	158
125°	220	259	455	822	963	196
135°	257	306	440	671	774	199
145°	293	335	429	542	598	183
155°	332	358	415	472	492	153
165°	363	373	397	421	429	102
175°	378	378	381	386	386	36
180°	379	379	379	379	379	

TEST NUMBER: P1011655

CATALOG NUMBER: S123DIP-B340D805UB35-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	418.1	418.1	418.1	418.1	418.1
2.5°	420.3	419.0	415.3	419.0	418.5
5°	418.5	417.6	414.9	418.5	418.1
7.5°	415.3	415.3	412.6	417.1	416.7
10°	410.8	411.7	409.4	414.0	413.0
12.5°	405.3	406.7	405.3	409.4	408.5
15°	398.5	399.8	399.4	403.9	403.5
17.5°	390.3	393.0	392.6	396.7	395.7
20°	381.2	383.9	384.8	388.9	389.4
22.5°	371.6	374.3	375.7	381.2	380.7
25°	359.8	364.3	365.7	371.6	371.6
27.5°	348.4	353.4	356.1	361.1	361.6
30°	336.1	342.0	345.6	351.1	351.1
32.5°	322.4	329.3	334.3	340.2	341.6
35°	309.7	317.0	322.9	329.7	331.5
37.5°	296.0	304.2	311.0	318.8	320.1
40°	282.3	290.5	299.7	307.4	309.2
42.5°	267.3	277.8	287.4	296.0	298.7
45°	253.2	264.1	275.5	284.2	287.8
47.5°	238.2	250.5	263.2	272.8	275.5
50°	223.6	236.4	250.5	260.9	264.1
52.5°	208.1	221.8	237.7	248.6	252.7
55°	193.1	208.1	224.5	236.8	240.5
57.5°	178.5	194.0	211.8	224.1	228.2
60°	163.0	179.4	198.1	210.9	215.9
62.5°	148.5	165.3	185.3	198.1	202.7
65°	133.4	151.2	171.2	184.9	189.4
67.5°	118.4	137.1	157.1	172.1	175.8
70°	102.5	122.0	143.9	158.5	163.0
72.5°	87.9	107.5	130.2	145.3	149.8
75°	72.4	93.8	116.6	131.6	137.1
77.5°	59.2	80.6	103.4	119.3	123.4
80°	45.1	67.4	91.1	106.6	111.1
82.5°	32.8	55.6	79.7	95.2	99.7
85°	22.3	45.1	69.2	84.7	89.3
87.5°	13.7	36.4	59.7	75.1	79.7
90°	7.4	37.4	70.7	88.4	93.7
92.5°	17.0	71.0	190.5	111.5	107.5
95°	31.1	107.6	499.9	191.9	152.8
97.5°	46.0	117.9	741.9	389.6	243.1
100°	60.9	125.6	765.9	750.8	538.3
102.5°	76.5	134.9	713.3	984.1	815.8
105°	92.6	146.1	650.8	1125.2	1026.6
107.5°	109.0	159.6	595.1	1185.3	1162.9
110°	126.9	173.5	549.1	1184.6	1239.5

TEST NUMBER: P1011655

CATALOG NUMBER: S123DIP-B340D805UB35-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	143.8	188.2	517.2	1138.0	1252.9
115°	159.5	203.6	495.8	1069.3	1225.2
117.5°	175.6	218.0	480.0	996.0	1168.8
120°	192.0	232.3	469.3	926.6	1095.0
122.5°	206.6	246.2	461.6	871.3	1026.4
125°	220.0	259.4	454.8	821.7	963.0
127.5°	230.7	272.8	450.2	780.7	908.1
130°	240.7	285.0	445.6	742.7	862.0
132.5°	247.9	296.2	442.6	706.9	817.5
135°	257.1	306.2	439.6	670.6	774.4
137.5°	265.5	314.6	436.2	635.6	729.5
140°	273.5	322.2	433.6	601.9	682.7
142.5°	282.7	328.6	430.3	570.4	638.6
145°	292.7	334.8	428.7	542.4	598.3
147.5°	302.2	341.3	426.4	520.2	563.8
150°	312.1	346.7	423.4	501.2	533.9
152.5°	322.1	352.4	419.5	485.8	510.0
155°	332.1	358.2	414.9	471.7	491.6
157.5°	339.8	363.2	411.1	457.8	474.0
160°	349.0	367.4	406.5	445.2	457.1
162.5°	355.9	370.4	401.9	433.3	441.8
165°	362.8	373.1	397.3	421.4	428.7
167.5°	368.1	375.4	392.7	411.0	415.7
170°	372.7	376.6	388.1	401.8	404.2
172.5°	375.8	377.7	384.2	393.8	393.4
175°	378.1	378.5	381.2	386.5	385.8
177.5°	379.6	378.9	378.9	381.9	380.4
180°	378.9	378.9	378.9	378.9	378.9

(END OF REPORT)