

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: P1001132

Luminaire Tested: SA4XXDIP-B350D1035UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001132
REPORT IS A COMBINATION OF REPORTS P995748 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B350D1035UB30-4F0-XX-W2A-D4
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

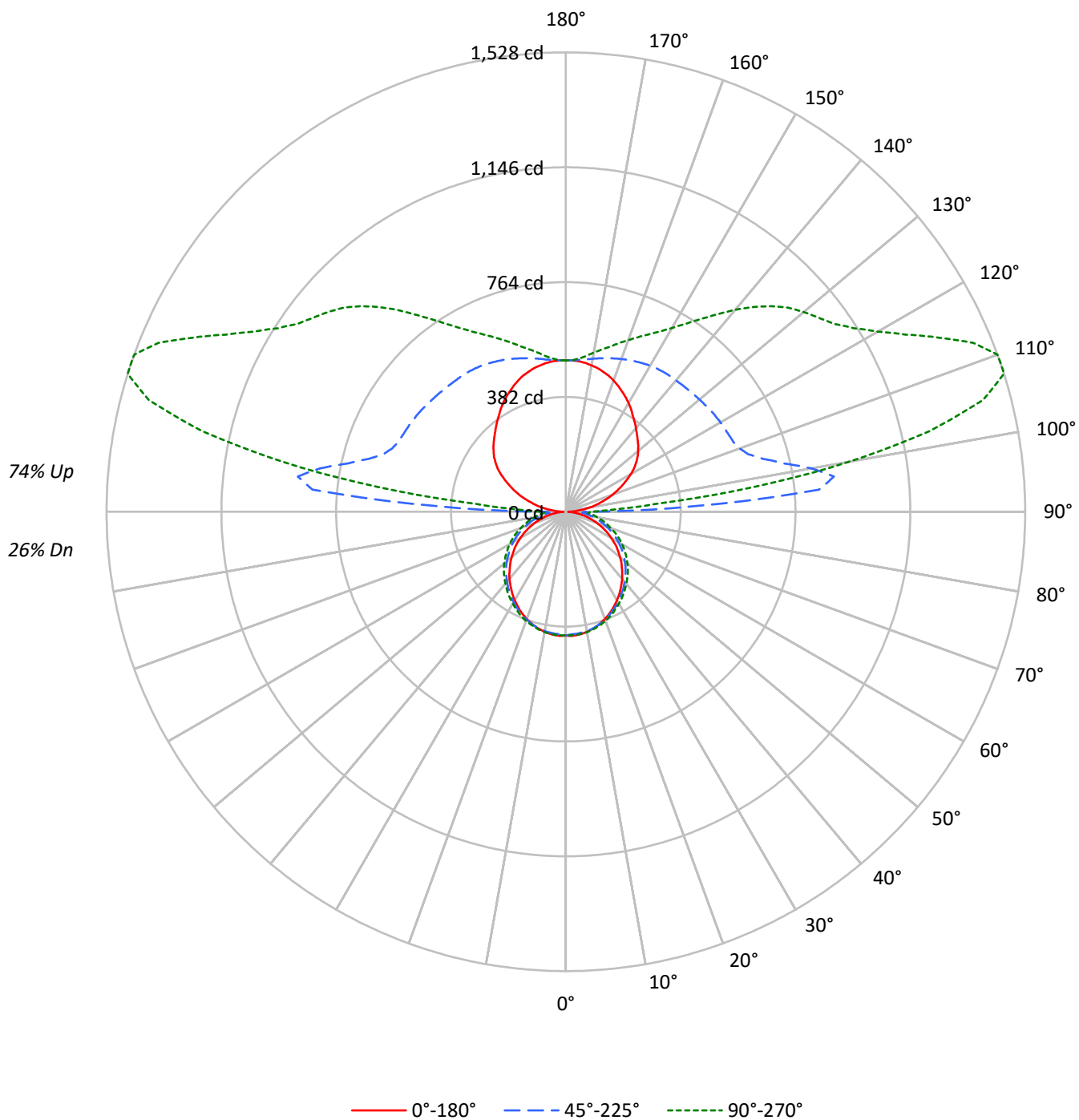
Lumens per Lamp: N/A
Luminaire Lumens: 5076.4 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
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: P1001132

CATALOG NUMBER: SA4XXDIP-B350D1035UB30-4F0-XX-W2A-D4

Luminous Intensity Polar Plot



TEST NUMBER: P1001132

CATALOG NUMBER: SA4XXDIP-B350D1035UB30-4F0-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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34
1	92	87	83	80	82	78	75	72	60	58	56	44	43	41	29	28	27
2	83	76	70	65	74	68	63	58	52	49	46	38	36	34	25	24	23
3	76	67	59	54	67	59	53	48	46	42	38	34	31	28	22	20	19
4	69	59	51	45	61	52	46	41	41	36	32	30	27	24	20	18	16
5	63	52	44	38	56	46	40	35	36	31	28	27	23	21	18	16	14
6	58	46	38	33	52	42	35	30	32	27	24	24	20	18	16	14	12
7	54	42	34	29	48	37	31	26	29	24	21	22	18	16	14	12	11
8	50	38	30	25	44	34	27	23	26	22	18	20	16	14	13	11	10
9	46	34	27	22	41	31	24	20	24	19	16	18	15	12	12	10	9
10	43	31	24	20	38	28	22	18	22	18	14	17	13	11	11	9	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3356	3356	3356
5°	3365	3268	3274
10°	3343	3204	3194
15°	3312	3132	3105
20°	3265	3054	3018
25°	3213	2967	2925
30°	3157	2881	2829
35°	3093	2794	2744
40°	3041	2710	2656
45°	2966	2631	2577
50°	2901	2542	2495
55°	2833	2455	2400
60°	2729	2348	2311
65°	2617	2233	2205
70°	2479	2100	2080
75°	2285	1954	1962
80°	2065	1803	1838
85°	1776	1653	1738

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2966 cd/sqm

TEST NUMBER: P1001132

CATALOG NUMBER: SA4XXDIP-B350D1035UB30-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.0	0.8
10°-20°	111.7	2.2
20°-30°	168.9	3.3
30°-40°	204.4	4.0
40°-50°	216.0	4.3
50°-60°	203.3	4.0
60°-70°	168.7	3.3
70°-80°	118.4	2.3
80°-90°	68.7	1.4
90°-100°	413.4	8.1
100°-110°	789.5	15.6
110°-120°	697.2	13.7
120°-130°	580.2	11.4
130°-140°	479.7	9.4
140°-150°	363.6	7.2
150°-160°	254.9	5.0
160°-170°	149.9	3.0
170°-180°	48.8	1.0
0°-30°	319.6	6.3
0°-40°	524.0	10.3
0°-60°	943.3	18.6
0°-90°	1299.1	25.6
90°-120°	1900.1	37.4
90°-150°	3323.6	65.5
90°-180°	3777.0	74.4
0°-180°	5076.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	412	412	412	412	412	
5°	412	411	407	411	411	39
15°	395	395	394	398	398	111
25°	361	364	365	370	371	166
35°	316	322	326	333	334	198
45°	264	272	281	289	291	204
55°	206	216	230	239	242	184
65°	143	158	173	185	188	142
75°	79	96	116	129	133	84
85°	24	44	64	78	83	25
90°	8	34	63	79	84	7
95°	39	124	846	451	298	41
105°	120	181	679	1438	1436	128
115°	206	262	600	1143	1370	205
125°	286	338	588	967	1090	255
135°	338	402	574	851	967	261
145°	389	445	567	710	782	244
155°	442	477	552	625	651	204
165°	481	496	529	560	568	136
175°	502	503	507	514	512	48
180°	503	503	503	503	503	

TEST NUMBER: P1001132

CATALOG NUMBER: SA4XXDIP-B350D1035UB30-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	411.5	411.5	411.5	411.5	411.5
2.5°	413.4	412.0	408.3	411.5	411.0
5°	412.0	410.6	407.4	411.0	410.6
7.5°	409.2	408.3	405.5	409.7	409.2
10°	405.5	405.1	402.8	406.9	406.4
12.5°	400.4	400.4	399.1	402.8	402.8
15°	394.9	395.4	394.0	398.1	397.7
17.5°	387.5	388.9	388.5	392.6	392.2
20°	379.7	381.1	381.6	386.2	386.2
22.5°	371.0	372.8	373.7	378.3	379.3
25°	361.3	364.0	365.4	370.5	371.0
27.5°	350.7	354.8	356.7	361.3	361.7
30°	340.1	343.8	347.0	352.1	353.0
32.5°	328.6	333.2	336.9	342.8	343.8
35°	316.1	321.6	326.3	332.7	334.1
37.5°	303.7	310.1	315.7	322.1	323.5
40°	291.7	297.7	304.1	311.1	312.9
42.5°	277.9	284.8	292.6	300.5	301.8
45°	263.6	272.3	281.1	288.9	291.2
47.5°	250.2	259.0	269.1	277.0	279.7
50°	235.5	245.6	255.8	265.0	267.7
52.5°	220.7	230.9	242.8	252.1	254.8
55°	206.4	216.1	229.9	239.2	241.9
57.5°	190.3	202.3	215.7	226.7	229.0
60°	174.6	186.6	201.8	212.4	216.1
62.5°	159.4	172.8	188.0	198.6	202.3
65°	142.9	157.6	173.3	184.8	188.5
67.5°	127.2	142.9	159.4	171.0	174.6
70°	111.1	126.7	144.2	156.7	159.9
72.5°	95.4	111.5	130.4	142.4	146.1
75°	79.3	96.3	115.7	128.6	132.7
77.5°	64.1	82.0	102.3	115.2	119.8
80°	50.2	68.7	88.9	102.8	106.4
82.5°	36.4	55.8	76.0	90.3	94.5
85°	24.4	43.8	64.5	78.3	82.9
87.5°	15.2	34.1	54.4	67.7	71.9
90°	8.4	33.7	63.4	78.8	83.5
92.5°	20.7	99.2	430.3	183.8	149.3
95°	38.6	124.0	845.6	451.3	297.9
97.5°	59.9	132.6	899.6	864.2	633.1
100°	80.2	145.6	829.6	1174.2	957.0
102.5°	100.0	161.5	743.3	1367.1	1239.4
105°	119.7	181.0	678.8	1438.0	1436.2
107.5°	142.5	201.2	635.9	1413.4	1528.4
110°	164.8	221.2	615.4	1331.6	1528.1

TEST NUMBER: P1001132

CATALOG NUMBER: SA4XXDIP-B350D1035UB30-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	186.0	241.6	604.2	1232.0	1467.0
115°	206.4	262.3	599.9	1142.8	1370.3
117.5°	228.1	282.2	596.6	1071.7	1276.1
120°	249.4	301.2	594.3	1023.0	1198.2
122.5°	269.2	320.0	590.9	990.6	1136.1
125°	285.5	338.4	588.1	967.0	1089.9
127.5°	301.3	356.2	583.8	944.0	1059.9
130°	313.7	373.0	580.6	917.5	1033.5
132.5°	326.6	387.8	577.8	886.5	1004.5
135°	337.9	402.2	574.4	850.6	967.1
137.5°	349.8	414.2	572.6	812.8	923.8
140°	362.6	425.5	570.2	775.8	877.0
142.5°	376.1	435.8	569.3	741.9	827.2
145°	388.9	444.8	567.3	710.4	782.4
147.5°	403.8	453.6	564.4	684.0	740.6
150°	417.6	462.0	561.4	661.2	705.7
152.5°	429.9	470.0	556.4	642.4	676.0
155°	441.8	476.9	551.5	624.7	651.3
157.5°	453.7	483.3	546.6	607.8	628.6
160°	464.5	488.8	540.6	591.0	607.8
162.5°	474.4	493.2	534.7	574.8	588.1
165°	481.3	496.2	528.8	559.9	568.3
167.5°	489.2	498.6	522.8	547.0	552.5
170°	494.2	500.6	516.9	534.2	537.7
172.5°	499.1	502.1	511.0	522.8	522.8
175°	502.1	503.1	507.0	513.9	512.0
177.5°	504.1	503.1	504.1	507.5	504.1
180°	503.1	503.1	503.1	503.1	503.1

(END OF REPORT)