

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: P1001108

Luminaire Tested: SA4XXDIP-B350D1035UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001108
REPORT IS A COMBINATION OF REPORTS P995724 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B350D1035UB27-4F0-XX-W2A-D4
Description: Define 4 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

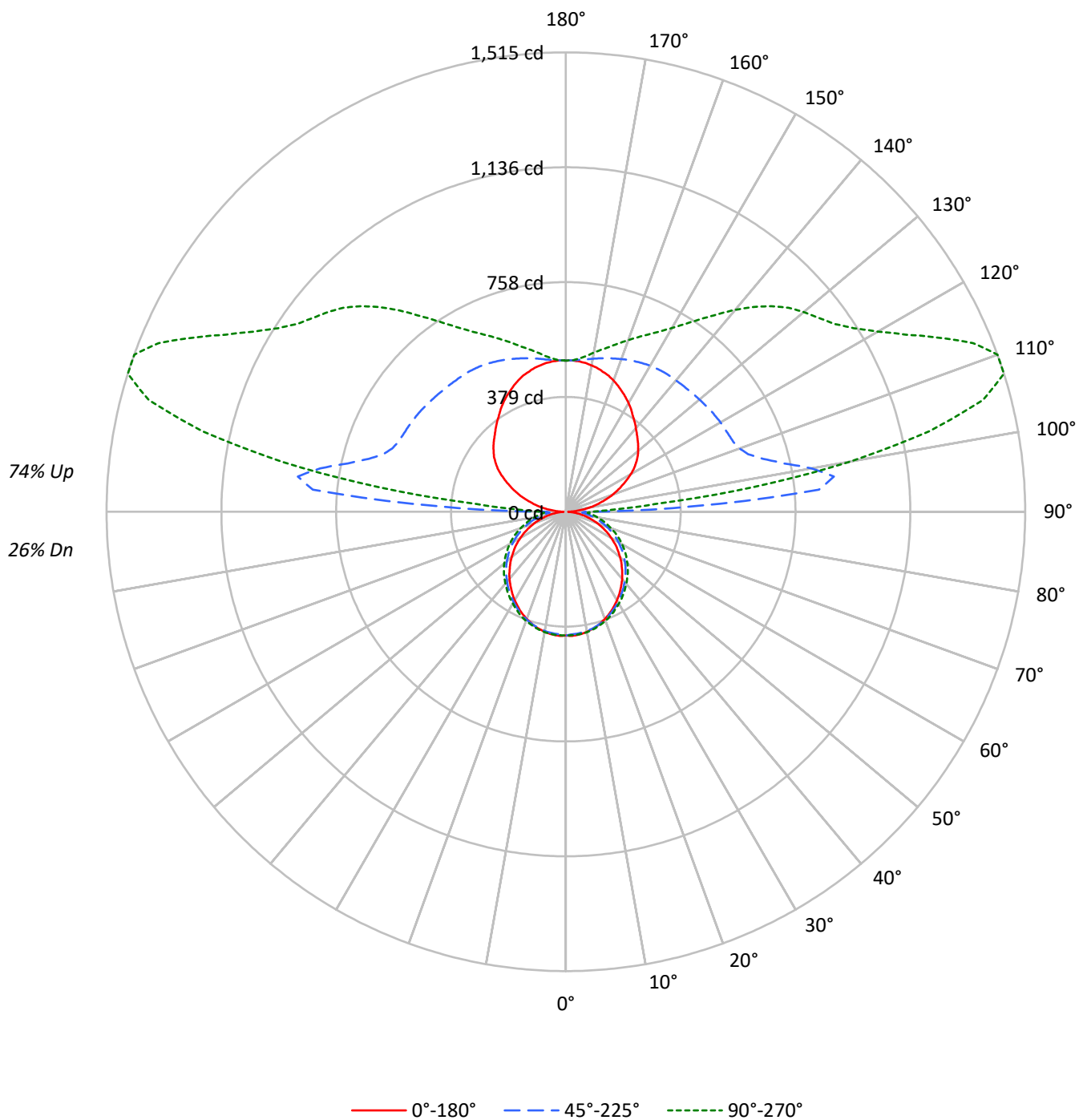
Lumens per Lamp: N/A
Luminaire Lumens: 5032.3 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

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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					0
RW	70	50	30	10	70	50	30	10	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	26		
1	92	87	83	80	82	78	75	72	60	58	56	44	43	41	29	28	27	20		
2	83	76	70	65	74	68	63	58	52	49	46	38	36	34	25	24	23	17		
3	76	67	59	54	67	59	53	48	46	42	38	34	31	28	22	20	19	14		
4	69	59	51	45	61	52	46	41	41	36	32	30	27	24	20	18	16	12		
5	63	52	44	38	56	46	40	35	36	31	28	27	23	21	18	16	14	10		
6	58	46	38	33	52	42	35	30	32	27	24	24	20	18	16	14	12	9		
7	54	42	34	29	48	37	31	26	29	24	21	22	18	16	14	12	11	8		
8	50	38	30	25	44	34	27	23	26	22	18	20	16	14	13	11	10	7		
9	46	34	27	22	41	31	24	20	24	19	16	18	15	12	12	10	9	6		
10	43	31	24	20	38	28	22	18	22	18	14	17	13	11	11	9	8	6		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3327	3327	3327
5°	3336	3240	3246
10°	3314	3176	3168
15°	3283	3105	3079
20°	3238	3027	2993
25°	3186	2942	2900
30°	3130	2857	2805
35°	3066	2770	2720
40°	3015	2687	2633
45°	2940	2609	2555
50°	2877	2520	2474
55°	2810	2435	2380
60°	2707	2328	2292
65°	2593	2214	2186
70°	2456	2082	2062
75°	2265	1937	1946
80°	2048	1789	1822
85°	1761	1640	1723

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2940 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.7	0.8
10°-20°	110.8	2.2
20°-30°	167.5	3.3
30°-40°	202.6	4.0
40°-50°	214.2	4.3
50°-60°	201.6	4.0
60°-70°	167.3	3.3
70°-80°	117.4	2.3
80°-90°	68.1	1.4
90°-100°	409.8	8.1
100°-110°	782.6	15.6
110°-120°	691.1	13.7
120°-130°	575.1	11.4
130°-140°	475.5	9.4
140°-150°	360.4	7.2
150°-160°	252.7	5.0
160°-170°	148.6	3.0
170°-180°	48.3	1.0
0°-30°	316.9	6.3
0°-40°	519.5	10.3
0°-60°	935.3	18.6
0°-90°	1288.0	25.6
90°-120°	1883.5	37.4
90°-150°	3294.6	65.5
90°-180°	3744.0	74.4
0°-180°	5032.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	408	408	408	408	408	
5°	408	407	404	408	407	39
15°	392	392	391	395	394	110
25°	358	361	362	367	368	165
35°	313	319	324	330	331	196
45°	261	270	279	286	289	202
55°	205	214	228	237	240	182
65°	142	156	172	183	187	140
75°	79	96	115	128	132	84
85°	24	43	64	78	82	25
90°	8	33	63	78	83	7
95°	38	123	838	447	295	40
105°	119	179	673	1426	1424	127
115°	204	260	595	1133	1358	203
125°	283	336	583	959	1080	252
135°	335	399	569	843	959	259
145°	386	441	562	704	776	242
155°	438	473	547	619	646	202
165°	477	492	524	555	563	135
175°	498	499	503	510	508	47
180°	499	499	499	499	499	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	408.0	408.0	408.0	408.0	408.0
2.5°	409.8	408.4	404.8	408.0	407.5
5°	408.4	407.1	403.9	407.5	407.1
7.5°	405.7	404.8	402.0	406.2	405.7
10°	402.0	401.6	399.3	403.4	403.0
12.5°	397.0	397.0	395.7	399.3	399.3
15°	391.5	392.0	390.6	394.7	394.3
17.5°	384.2	385.6	385.1	389.3	388.8
20°	376.5	377.8	378.3	382.9	382.9
22.5°	367.8	369.6	370.5	375.1	376.0
25°	358.2	360.9	362.3	367.3	367.8
27.5°	347.7	351.8	353.6	358.2	358.6
30°	337.2	340.8	344.0	349.1	350.0
32.5°	325.8	330.3	334.0	339.9	340.8
35°	313.4	318.9	323.5	329.9	331.2
37.5°	301.1	307.5	313.0	319.4	320.7
40°	289.2	295.1	301.5	308.4	310.2
42.5°	275.5	282.3	290.1	297.9	299.3
45°	261.3	270.0	278.7	286.5	288.7
47.5°	248.1	256.8	266.8	274.6	277.3
50°	233.5	243.5	253.6	262.7	265.4
52.5°	218.8	228.9	240.8	249.9	252.7
55°	204.7	214.3	228.0	237.1	239.9
57.5°	188.7	200.6	213.8	224.8	227.1
60°	173.2	185.0	200.1	210.6	214.3
62.5°	158.1	171.3	186.4	196.9	200.6
65°	141.6	156.3	171.8	183.2	186.9
67.5°	126.1	141.6	158.1	169.5	173.2
70°	110.1	125.6	143.0	155.3	158.5
72.5°	94.6	110.6	129.3	141.2	144.8
75°	78.6	95.5	114.7	127.5	131.6
77.5°	63.5	81.3	101.4	114.2	118.8
80°	49.8	68.1	88.2	101.9	105.5
82.5°	36.1	55.3	75.4	89.5	93.7
85°	24.2	43.4	64.0	77.7	82.2
87.5°	15.1	33.8	53.9	67.2	71.3
90°	8.3	33.4	62.8	78.1	82.7
92.5°	20.6	98.2	426.6	182.1	148.1
95°	38.2	122.9	838.2	447.4	295.3
97.5°	59.4	131.4	891.8	856.6	627.6
100°	79.5	144.2	822.4	1163.9	948.7
102.5°	99.1	160.1	736.8	1355.2	1228.6
105°	118.7	179.3	672.9	1425.5	1423.7
107.5°	141.3	199.5	630.4	1401.1	1515.0
110°	163.4	219.2	609.9	1319.9	1514.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	184.5	239.4	598.9	1221.2	1454.2
115°	204.5	260.2	594.6	1132.7	1358.3
117.5°	226.1	279.8	591.4	1062.4	1264.9
120°	247.2	298.6	589.1	1014.0	1187.7
122.5°	266.8	317.3	585.8	982.0	1126.3
125°	283.0	335.5	583.0	958.6	1080.4
127.5°	298.7	353.1	578.7	935.8	1050.6
130°	311.0	369.8	575.5	909.4	1024.4
132.5°	323.7	384.4	572.7	878.9	995.7
135°	335.0	398.6	569.4	843.2	958.7
137.5°	346.7	410.6	567.6	805.6	915.7
140°	359.5	421.8	565.2	769.2	869.3
142.5°	372.8	432.0	564.3	735.4	820.1
145°	385.5	440.9	562.4	704.2	775.6
147.5°	400.2	449.7	559.4	678.0	734.2
150°	413.9	458.0	556.5	655.4	699.5
152.5°	426.2	465.8	551.6	636.8	670.1
155°	437.9	472.8	546.7	619.2	645.6
157.5°	449.7	479.1	541.8	602.5	623.1
160°	460.5	484.5	535.9	585.9	602.5
162.5°	470.3	488.9	530.0	569.7	582.9
165°	477.1	491.8	524.2	555.0	563.3
167.5°	485.0	494.2	518.3	542.3	547.7
170°	489.9	496.2	512.4	529.6	533.0
172.5°	494.8	497.7	506.5	518.3	518.3
175°	497.7	498.7	502.6	509.5	507.5
177.5°	499.7	498.7	499.7	503.1	499.7
180°	498.7	498.7	498.7	498.7	498.7

(END OF REPORT)