

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: P1001210

Luminaire Tested: SA4XXDIP-B350D1205UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001210
REPORT IS A COMBINATION OF REPORTS P995826 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B350D1205UB40-4F0-XX-W2A-D4
Description: Define 4 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

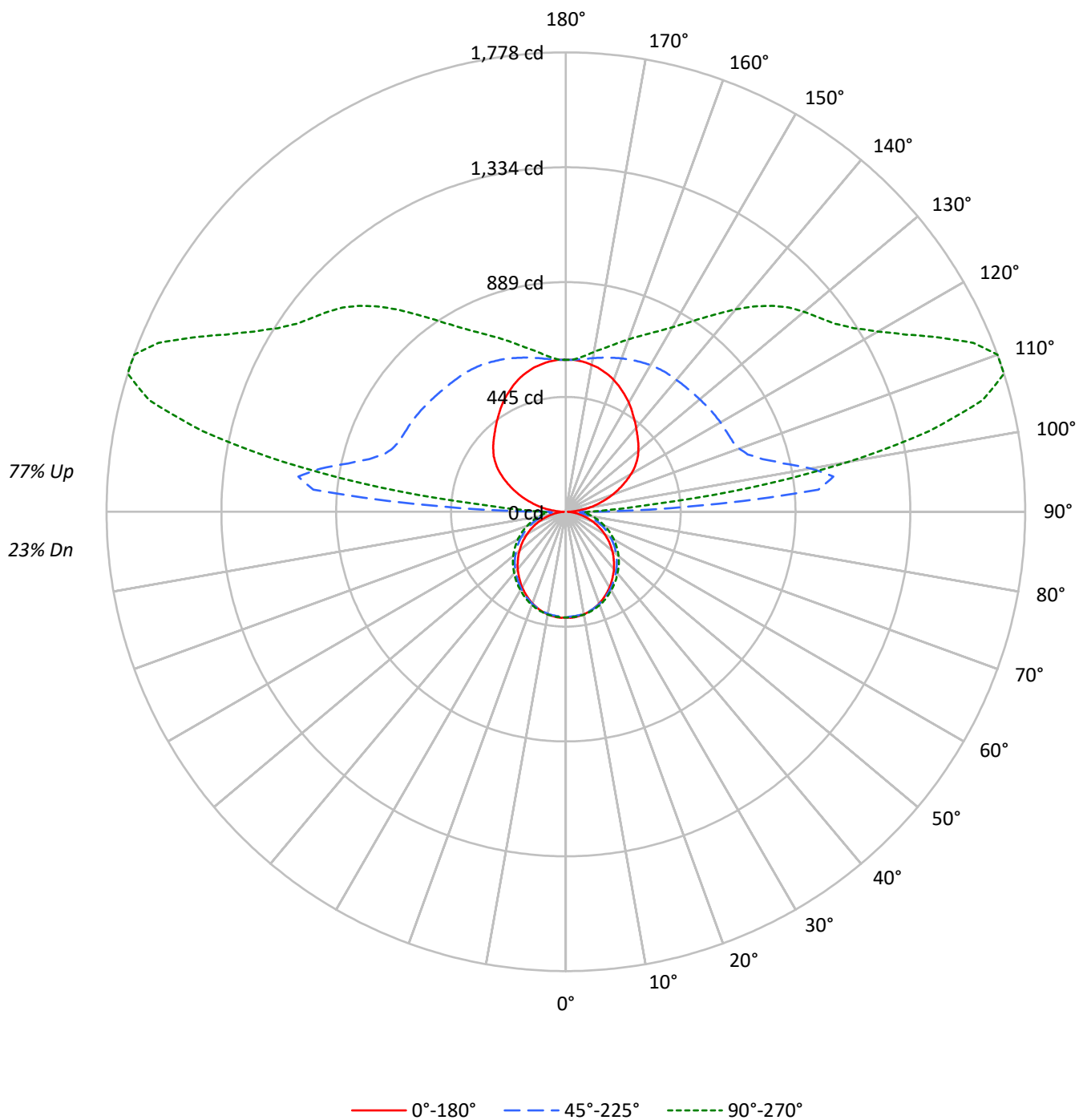
Lumens per Lamp: N/A
Luminaire Lumens: 5686.5 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
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	50	30	10
RCR																				
0	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31			23
1	91	87	83	79	81	77	74	71	59	57	55	42	41	40	27	26	25			18
2	83	76	69	64	73	67	62	58	51	48	45	37	34	33	23	22	21			15
3	75	66	59	53	66	59	53	48	45	41	37	32	30	27	20	19	18			12
4	69	58	51	45	61	52	45	40	40	35	32	29	26	23	18	16	15			10
5	63	52	44	38	55	46	39	34	35	31	27	25	22	20	16	14	13			9
6	58	46	38	33	51	41	34	29	32	27	23	23	20	17	15	13	11			8
7	53	41	34	28	47	37	30	26	29	24	20	21	17	15	13	11	10			7
8	49	37	30	25	44	33	27	22	26	21	18	19	16	13	12	10	9			6
9	46	34	27	22	40	30	24	20	24	19	16	17	14	12	11	9	8			5
10	43	31	24	19	38	28	22	18	22	17	14	16	13	11	10	8	7			5

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3337	3337	3337
5°	3346	3249	3255
10°	3324	3186	3176
15°	3293	3114	3087
20°	3246	3036	3001
25°	3195	2950	2907
30°	3138	2865	2813
35°	3075	2778	2728
40°	3024	2695	2640
45°	2949	2616	2563
50°	2884	2527	2481
55°	2818	2441	2386
60°	2715	2335	2298
65°	2600	2220	2192
70°	2463	2088	2069
75°	2271	1942	1952
80°	2052	1793	1828
85°	1768	1643	1729

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2949 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.8	0.7
10°-20°	111.1	2.0
20°-30°	168.0	3.0
30°-40°	203.2	3.6
40°-50°	214.8	3.8
50°-60°	202.2	3.6
60°-70°	167.7	2.9
70°-80°	117.7	2.1
80°-90°	68.6	1.2
90°-100°	476.1	8.4
100°-110°	917.2	16.1
110°-120°	811.1	14.3
120°-130°	675.9	11.9
130°-140°	559.6	9.8
140°-150°	424.6	7.5
150°-160°	297.8	5.2
160°-170°	175.2	3.1
170°-180°	57.0	1.0
0°-30°	317.8	5.6
0°-40°	521.0	9.2
0°-60°	938.0	16.5
0°-90°	1292.1	22.7
90°-120°	2204.4	38.8
90°-150°	3864.5	68.0
90°-180°	4394.0	77.3
0°-180°	5686.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	409	409	409	409	409	
5°	410	408	405	409	408	39
15°	393	393	392	396	395	111
25°	359	362	363	368	369	165
35°	314	320	324	331	332	197
45°	262	271	280	287	290	203
55°	205	215	229	238	240	183
65°	142	157	172	184	187	141
75°	79	96	115	128	132	84
85°	24	44	64	78	82	25
90°	8	35	66	82	86	8
95°	44	141	981	518	338	47
105°	139	209	788	1673	1670	149
115°	241	305	697	1330	1595	239
125°	333	395	685	1126	1269	297
135°	395	470	670	992	1127	305
145°	454	520	663	829	913	285
155°	516	557	644	730	761	238
165°	562	580	618	654	664	159
175°	587	588	592	600	598	56
180°	588	588	588	588	588	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	409.2	409.2	409.2	409.2	409.2
2.5°	411.0	409.6	406.0	409.2	408.7
5°	409.6	408.2	405.0	408.7	408.2
7.5°	406.9	406.0	403.2	407.3	406.9
10°	403.2	402.7	400.5	404.6	404.1
12.5°	398.2	398.2	396.8	400.5	400.5
15°	392.7	393.1	391.8	395.9	395.4
17.5°	385.3	386.7	386.3	390.4	389.9
20°	377.5	378.9	379.4	384.0	384.0
22.5°	368.8	370.7	371.6	376.2	377.1
25°	359.2	362.0	363.3	368.4	368.8
27.5°	348.7	352.8	354.6	359.2	359.7
30°	338.1	341.8	345.0	350.1	351.0
32.5°	326.7	331.3	334.9	340.9	341.8
35°	314.3	319.8	324.4	330.8	332.2
37.5°	301.9	308.4	313.9	320.3	321.6
40°	290.0	296.0	302.4	309.3	311.1
42.5°	276.3	283.2	290.9	298.7	300.1
45°	262.1	270.8	279.5	287.3	289.6
47.5°	248.8	257.5	267.6	275.4	278.1
50°	234.1	244.2	254.3	263.5	266.2
52.5°	219.5	229.6	241.5	250.6	253.4
55°	205.3	214.9	228.6	237.8	240.5
57.5°	189.2	201.1	214.4	225.4	227.7
60°	173.7	185.6	200.7	211.2	214.9
62.5°	158.5	171.8	186.9	197.5	201.1
65°	142.0	156.7	172.3	183.7	187.4
67.5°	126.5	142.0	158.5	170.0	173.7
70°	110.4	126.0	143.4	155.8	159.0
72.5°	94.8	110.9	129.7	141.6	145.2
75°	78.8	95.8	115.0	127.8	132.0
77.5°	63.7	81.6	101.7	114.5	119.1
80°	49.9	68.3	88.4	102.2	105.8
82.5°	36.2	55.4	75.6	89.8	93.9
85°	24.3	43.5	64.1	77.9	82.5
87.5°	15.1	33.9	54.1	67.4	71.5
90°	8.5	34.9	66.2	81.7	86.5
92.5°	23.1	111.8	495.2	205.0	164.2
95°	44.1	141.2	981.0	518.1	338.1
97.5°	69.0	151.6	1044.5	1001.0	730.3
100°	92.8	167.1	963.2	1363.6	1109.3
102.5°	115.9	186.0	862.7	1589.4	1439.5
105°	139.2	209.0	787.7	1672.7	1670.1
107.5°	165.8	233.0	738.0	1644.4	1778.1
110°	191.9	256.6	714.3	1549.4	1778.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	216.8	280.6	701.6	1433.4	1707.3
115°	240.6	305.4	697.0	1329.5	1594.8
117.5°	266.0	328.8	693.5	1247.1	1485.1
120°	291.0	351.2	691.3	1190.6	1394.7
122.5°	314.1	373.5	687.9	1153.1	1322.6
125°	333.2	395.2	684.8	1126.0	1269.1
127.5°	351.7	415.9	680.2	1099.6	1234.4
130°	366.3	435.6	676.8	1069.0	1203.9
132.5°	381.3	453.0	673.8	1033.2	1170.5
135°	394.7	469.7	670.4	991.8	1127.3
137.5°	408.5	483.8	668.6	948.0	1077.3
140°	423.5	497.0	666.0	905.2	1023.0
142.5°	439.3	509.2	665.1	865.8	965.3
145°	454.3	519.6	662.8	829.4	913.4
147.5°	471.6	530.0	659.3	799.0	864.9
150°	487.8	539.8	655.9	772.5	824.5
152.5°	502.3	549.0	650.1	750.6	789.8
155°	516.2	557.2	644.3	729.8	760.9
157.5°	530.0	564.7	638.6	710.2	734.4
160°	542.7	571.0	631.6	690.5	710.1
162.5°	554.3	576.2	624.7	671.4	687.0
165°	562.3	579.7	617.8	654.2	664.0
167.5°	571.6	582.6	610.8	639.2	645.5
170°	577.4	584.8	603.9	624.1	628.2
172.5°	583.1	586.6	597.0	610.8	610.8
175°	586.6	587.7	592.4	600.4	598.1
177.5°	588.9	587.7	588.9	593.0	588.9
180°	587.7	587.7	587.7	587.7	587.7

(END OF REPORT)