

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: P1001141

Luminaire Tested: SA4XXDIP-B350D1035UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001141
REPORT IS A COMBINATION OF REPORTS P995757 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B350D1035UB35-4F0-XX-W2A-D4
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

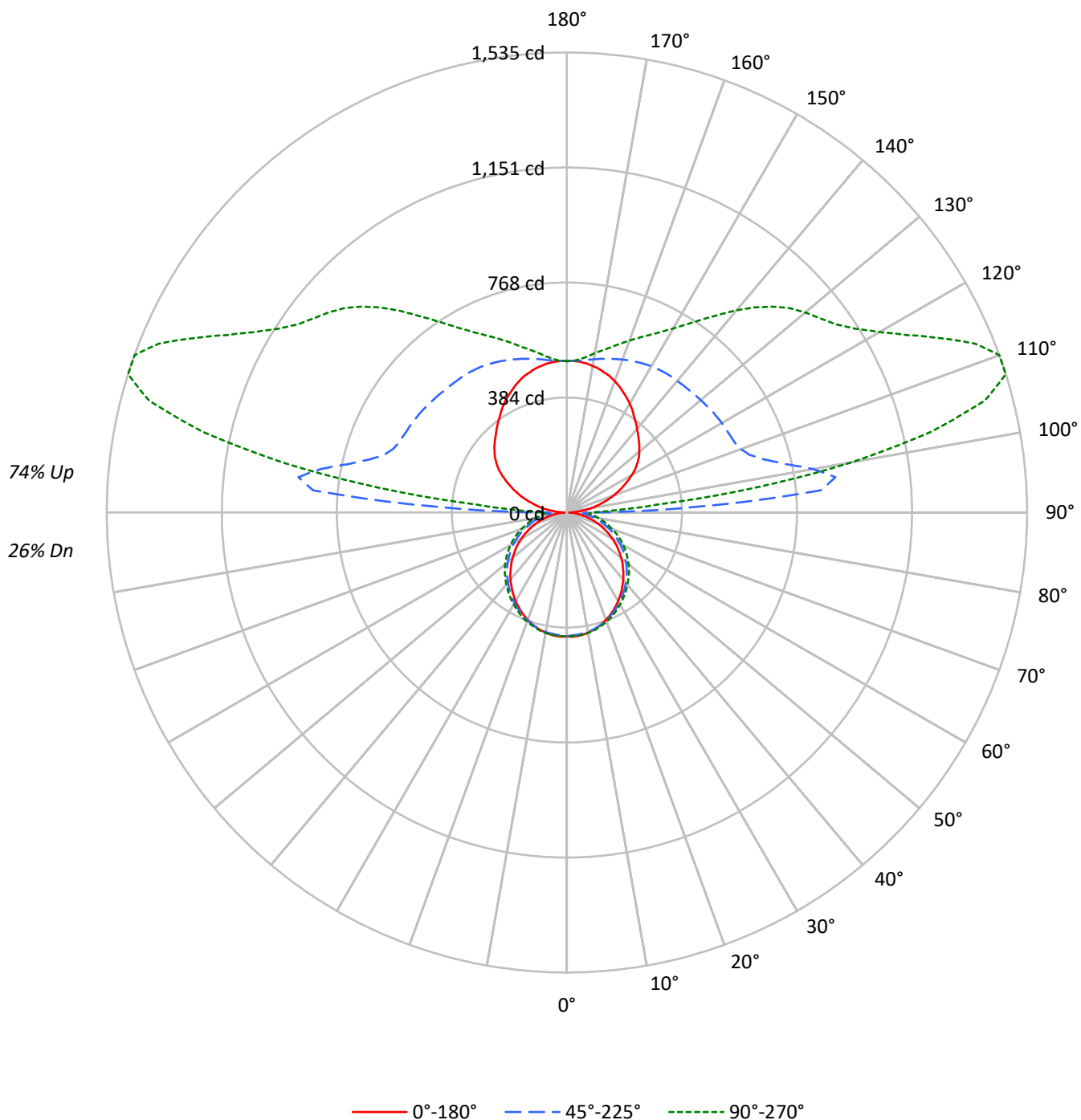
Lumens per Lamp: N/A
Luminaire Lumens: 5098.4 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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				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°	3370	3370	3370
5°	3379	3282	3288
10°	3358	3218	3209
15°	3326	3145	3119
20°	3279	3066	3031
25°	3227	2980	2937
30°	3170	2894	2841
35°	3106	2806	2755
40°	3054	2721	2667
45°	2978	2643	2589
50°	2913	2552	2506
55°	2846	2466	2411
60°	2742	2358	2321
65°	2628	2242	2214
70°	2488	2110	2089
75°	2294	1962	1971
80°	2073	1811	1847
85°	1783	1660	1746

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2978 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.2	0.8
10°-20°	112.2	2.2
20°-30°	169.6	3.3
30°-40°	205.2	4.0
40°-50°	217.0	4.3
50°-60°	204.2	4.0
60°-70°	169.4	3.3
70°-80°	118.9	2.3
80°-90°	69.0	1.4
90°-100°	415.2	8.1
100°-110°	792.9	15.6
110°-120°	700.2	13.7
120°-130°	582.7	11.4
130°-140°	481.8	9.4
140°-150°	365.2	7.2
150°-160°	256.0	5.0
160°-170°	150.6	3.0
170°-180°	49.0	1.0
0°-30°	321.0	6.3
0°-40°	526.2	10.3
0°-60°	947.4	18.6
0°-90°	1304.7	25.6
90°-120°	1908.4	37.4
90°-150°	3338.1	65.5
90°-180°	3794.0	74.4
0°-180°	5098.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	413	413	413	413	413	
5°	414	412	409	413	412	39
15°	397	397	396	400	399	112
25°	363	366	367	372	372	167
35°	318	323	328	334	336	199
45°	265	274	282	290	292	205
55°	207	217	231	240	243	185
65°	144	158	174	186	189	142
75°	80	97	116	129	133	85
85°	24	44	65	79	83	26
90°	8	34	64	79	84	7
95°	39	125	849	453	299	41
105°	120	182	682	1444	1442	128
115°	207	264	602	1148	1376	206
125°	287	340	591	971	1095	256
135°	339	404	577	854	971	262
145°	391	447	570	714	786	245
155°	444	479	554	627	654	205
165°	483	498	531	562	571	137
175°	504	505	509	516	514	48
180°	505	505	505	505	505	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	413.3	413.3	413.3	413.3	413.3
2.5°	415.1	413.7	410.0	413.3	412.8
5°	413.7	412.3	409.1	412.8	412.3
7.5°	411.0	410.0	407.3	411.4	411.0
10°	407.3	406.8	404.5	408.6	408.2
12.5°	402.2	402.2	400.8	404.5	404.5
15°	396.6	397.1	395.7	399.8	399.4
17.5°	389.2	390.6	390.1	394.3	393.8
20°	381.3	382.7	383.2	387.8	387.8
22.5°	372.5	374.4	375.3	379.9	380.9
25°	362.8	365.6	367.0	372.1	372.5
27.5°	352.2	356.3	358.2	362.8	363.3
30°	341.5	345.2	348.5	353.6	354.5
32.5°	330.0	334.6	338.3	344.3	345.2
35°	317.5	323.0	327.7	334.1	335.5
37.5°	305.0	311.5	317.0	323.5	324.9
40°	292.9	299.0	305.4	312.4	314.2
42.5°	279.1	286.0	293.9	301.7	303.1
45°	264.7	273.5	282.3	290.2	292.5
47.5°	251.3	260.1	270.3	278.1	280.9
50°	236.5	246.7	256.8	266.1	268.9
52.5°	221.7	231.9	243.9	253.1	255.9
55°	207.3	217.0	230.9	240.2	243.0
57.5°	191.1	203.2	216.6	227.7	230.0
60°	175.4	187.4	202.7	213.3	217.0
62.5°	160.1	173.5	188.8	199.5	203.2
65°	143.5	158.3	174.0	185.6	189.3
67.5°	127.7	143.5	160.1	171.7	175.4
70°	111.5	127.3	144.9	157.3	160.6
72.5°	95.8	112.0	131.0	143.0	146.7
75°	79.6	96.7	116.2	129.1	133.3
77.5°	64.3	82.4	102.7	115.7	120.3
80°	50.4	69.0	89.3	103.2	106.9
82.5°	36.6	56.0	76.4	90.7	94.9
85°	24.5	44.0	64.8	78.7	83.3
87.5°	15.3	34.2	54.6	68.0	72.2
90°	8.4	33.8	63.7	79.1	83.7
92.5°	20.8	99.5	432.1	184.6	150.0
95°	38.8	124.6	849.3	453.4	299.1
97.5°	60.2	133.2	903.5	868.0	635.8
100°	80.5	146.2	833.3	1179.4	961.2
102.5°	100.4	162.2	746.6	1373.1	1244.8
105°	120.3	181.7	681.7	1444.2	1442.5
107.5°	143.2	202.1	638.7	1419.6	1535.0
110°	165.5	222.1	618.0	1337.4	1534.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	186.8	242.6	606.8	1237.3	1473.3
115°	207.3	263.5	602.5	1147.6	1376.3
117.5°	229.1	283.6	599.1	1076.5	1281.7
120°	250.5	302.5	596.8	1027.6	1203.4
122.5°	270.3	321.4	593.5	995.0	1141.1
125°	286.8	339.9	590.7	971.3	1094.6
127.5°	302.7	357.8	586.4	948.2	1064.5
130°	315.1	374.6	583.1	921.5	1037.9
132.5°	328.0	389.5	580.3	890.3	1008.8
135°	339.4	403.9	577.0	854.4	971.2
137.5°	351.3	415.9	575.1	816.3	927.8
140°	364.2	427.4	572.7	779.2	880.9
142.5°	377.7	437.8	571.8	745.2	830.8
145°	390.6	446.7	569.8	713.6	785.8
147.5°	405.5	455.6	566.8	686.9	743.8
150°	419.4	464.0	563.8	664.1	708.8
152.5°	431.8	472.0	558.9	645.2	679.0
155°	443.7	479.0	553.9	627.3	654.2
157.5°	455.6	485.4	548.9	610.5	631.3
160°	466.6	490.8	543.0	593.6	610.5
162.5°	476.5	495.4	537.0	577.2	590.6
165°	483.4	498.3	531.1	562.3	570.8
167.5°	491.4	500.8	525.1	549.4	554.9
170°	496.3	502.8	519.2	536.6	540.0
172.5°	501.3	504.3	513.2	525.1	525.1
175°	504.3	505.3	509.2	516.2	514.2
177.5°	506.3	505.3	506.3	509.7	506.3
180°	505.3	505.3	505.3	505.3	505.3

(END OF REPORT)