

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: P1001158

Luminaire Tested: SA4XXDIP-B350D1035UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001158
REPORT IS A COMBINATION OF REPORTS P995774 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B350D1035UB50-4F0-XX-W2A-D1
Description: Define 4 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

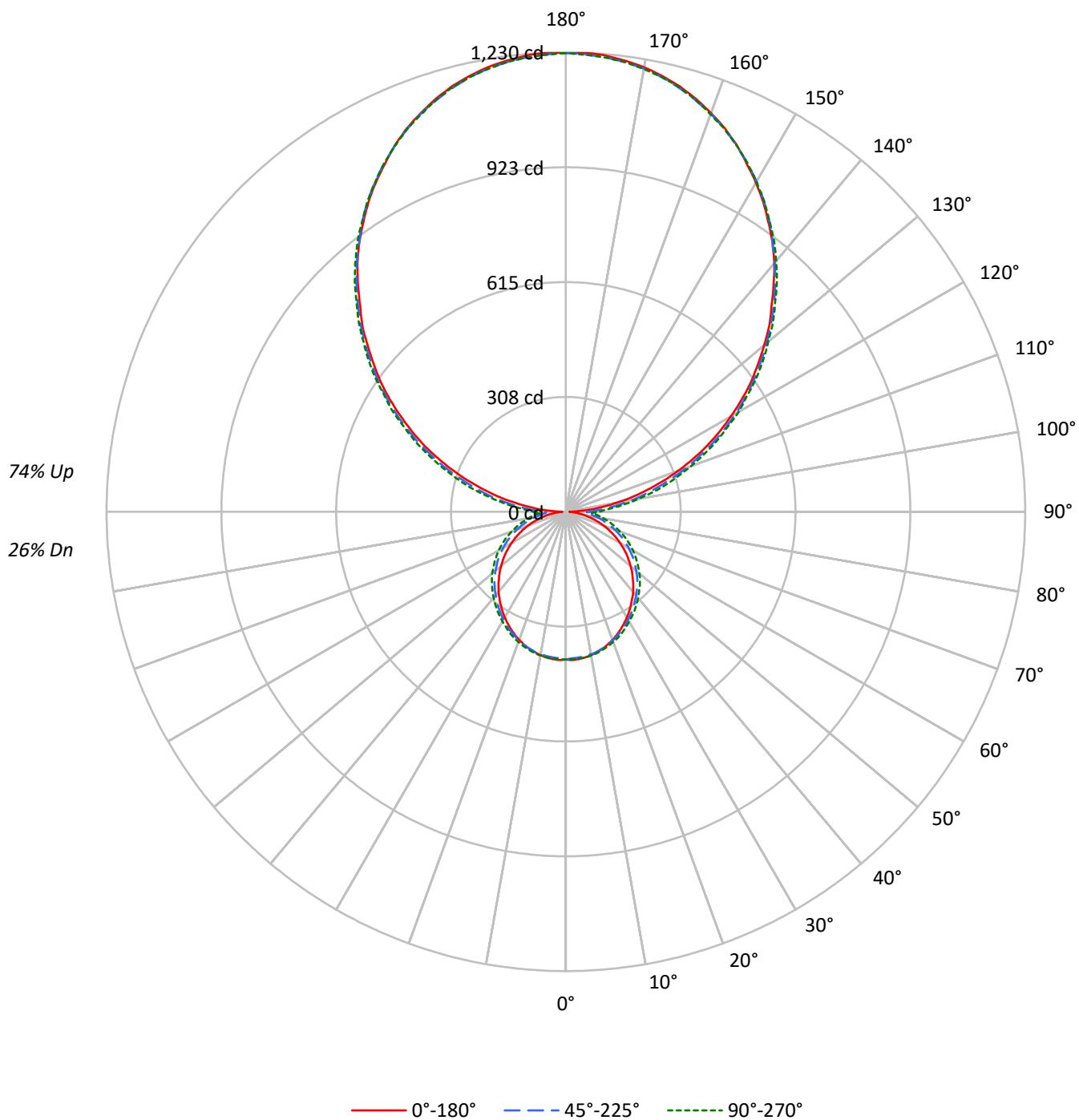
Lumens per Lamp: N/A
Luminaire Lumens: 4760.0 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	91	91	91	91	70	70	70	51	51	51	34	34	34
1	92	88	84	80	82	78	75	72	61	58	56	44	43	42	29	29	28
2	83	76	70	65	74	68	63	58	53	49	46	39	36	34	26	24	23
3	76	67	59	54	67	60	53	48	46	42	38	34	31	29	22	21	19
4	69	59	51	45	61	53	46	41	41	36	32	30	27	24	20	18	16
5	63	52	44	38	56	47	40	35	36	31	28	27	23	21	18	16	14
6	58	46	39	33	52	42	35	30	33	28	24	24	21	18	16	14	12
7	54	42	34	29	48	37	31	26	29	24	21	22	18	16	15	13	11
8	50	38	30	25	44	34	27	23	27	22	18	20	16	14	13	11	10
9	46	34	27	22	41	31	24	20	24	20	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°	3227	3227	3227
5°	3235	3143	3148
10°	3214	3081	3072
15°	3184	3011	2986
20°	3140	2936	2902
25°	3090	2853	2812
30°	3035	2770	2720
35°	2974	2686	2638
40°	2925	2605	2554
45°	2851	2530	2478
50°	2789	2444	2399
55°	2725	2361	2308
60°	2625	2258	2222
65°	2516	2147	2119
70°	2383	2020	2000
75°	2196	1878	1887
80°	1987	1734	1769
85°	1710	1589	1673

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 90°
Luminance: 3262 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.5	0.8
10°-20°	107.4	2.3
20°-30°	162.4	3.4
30°-40°	196.5	4.1
40°-50°	207.7	4.4
50°-60°	195.5	4.1
60°-70°	162.2	3.4
70°-80°	113.8	2.4
80°-90°	66.8	1.4
90°-100°	118.3	2.5
100°-110°	268.1	5.6
110°-120°	426.4	9.0
120°-130°	548.0	11.5
130°-140°	608.1	12.8
140°-150°	594.1	12.5
150°-160°	498.9	10.5
160°-170°	332.0	7.0
170°-180°	116.2	2.4
0°-30°	307.3	6.5
0°-40°	503.8	10.6
0°-60°	907.0	19.1
0°-90°	1249.9	26.3
90°-120°	812.8	17.1
90°-150°	2563.0	53.8
90°-180°	3510.0	73.7
0°-180°	4760.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	396	396	396	396	396	
5°	396	395	392	395	395	38
15°	380	380	379	383	382	107
25°	347	350	351	356	357	160
35°	304	309	314	320	321	190
45°	253	262	270	278	280	196
55°	198	208	221	230	233	177
65°	137	152	167	178	181	136
75°	76	93	111	124	128	81
85°	24	42	62	75	80	24
90°	10	38	65	83	89	9
95°	63	86	111	126	130	66
105°	225	235	255	269	276	239
115°	417	421	433	442	444	411
125°	605	605	615	621	622	539
135°	779	785	788	793	793	603
145°	946	949	950	952	951	592
155°	1083	1083	1082	1086	1082	498
165°	1179	1176	1174	1180	1176	332
175°	1226	1222	1221	1228	1221	116
180°	1228	1228	1228	1228	1228	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	395.7	395.7	395.7	395.7	395.7
2.5°	397.4	396.1	392.6	395.7	395.2
5°	396.1	394.8	391.7	395.2	394.8
7.5°	393.5	392.6	389.9	393.9	393.5
10°	389.9	389.5	387.3	391.2	390.8
12.5°	385.0	385.0	383.7	387.3	387.3
15°	379.7	380.2	378.8	382.8	382.4
17.5°	372.6	374.0	373.5	377.5	377.1
20°	365.1	366.4	366.9	371.3	371.3
22.5°	356.7	358.5	359.3	363.8	364.7
25°	347.4	350.0	351.4	356.2	356.7
27.5°	337.2	341.2	342.9	347.4	347.8
30°	327.0	330.5	333.6	338.5	339.4
32.5°	315.9	320.3	323.9	329.7	330.5
35°	304.0	309.3	313.7	319.9	321.2
37.5°	292.0	298.2	303.5	309.7	311.0
40°	280.5	286.2	292.4	299.1	300.9
42.5°	267.2	273.8	281.4	288.9	290.2
45°	253.4	261.9	270.3	277.8	280.0
47.5°	240.6	249.0	258.8	266.3	268.9
50°	226.4	236.2	245.9	254.8	257.4
52.5°	212.2	222.0	233.5	242.4	245.0
55°	198.5	207.8	221.1	230.0	232.6
57.5°	183.0	194.5	207.4	218.0	220.2
60°	167.9	179.4	194.1	204.3	207.8
62.5°	153.3	166.2	180.8	191.0	194.5
65°	137.4	151.5	166.6	177.7	181.2
67.5°	122.3	137.4	153.3	164.4	167.9
70°	106.8	121.8	138.7	150.6	153.7
72.5°	91.7	107.2	125.4	136.9	140.5
75°	76.2	92.6	111.2	123.6	127.6
77.5°	61.6	78.9	98.4	110.8	115.2
80°	48.3	66.0	85.5	98.8	102.4
82.5°	35.0	53.6	73.1	86.8	90.8
85°	23.5	42.1	62.0	75.3	79.8
87.5°	14.6	32.8	52.3	65.1	69.1
90°	10.0	38.1	64.8	83.3	88.8
92.5°	31.3	59.3	83.0	98.3	102.8
95°	62.8	86.0	110.7	125.6	129.6
97.5°	96.5	117.0	142.7	158.1	162.0
100°	137.9	153.2	179.1	192.9	196.0
102.5°	181.6	192.3	216.8	231.1	235.6
105°	225.4	235.1	255.3	269.3	275.7
107.5°	271.9	280.4	296.8	311.7	313.9
110°	318.9	327.0	341.7	349.9	356.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	367.9	373.2	385.9	395.7	399.2
115°	416.9	420.8	433.1	442.0	444.1
117.5°	463.5	466.1	478.4	484.9	485.6
120°	509.5	514.6	524.7	528.8	534.2
122.5°	558.0	558.9	570.0	575.9	574.3
125°	605.1	604.6	614.7	621.2	622.0
127.5°	647.8	650.2	657.2	663.3	665.4
130°	692.9	695.4	702.5	708.6	707.4
132.5°	739.5	741.0	745.3	750.9	752.7
135°	779.0	784.7	787.8	793.0	792.7
137.5°	823.6	826.0	829.7	833.5	836.7
140°	868.3	869.7	870.2	874.9	876.3
142.5°	908.6	910.5	909.2	914.1	915.8
145°	945.7	949.1	950.0	951.8	950.6
147.5°	983.7	988.0	987.1	986.5	987.4
150°	1017.9	1021.3	1021.3	1021.3	1020.3
152.5°	1049.8	1051.7	1052.6	1055.5	1052.6
155°	1083.0	1083.0	1082.1	1085.9	1082.1
157.5°	1111.6	1109.7	1109.7	1112.5	1109.7
160°	1136.3	1135.3	1134.4	1137.2	1132.5
162.5°	1159.1	1156.2	1155.3	1161.0	1156.2
165°	1179.0	1176.2	1174.3	1180.0	1176.2
167.5°	1195.2	1191.4	1191.4	1197.1	1191.4
170°	1208.5	1203.7	1204.7	1210.4	1203.7
172.5°	1218.0	1214.2	1214.2	1220.8	1214.2
175°	1226.5	1221.8	1220.8	1227.5	1220.8
177.5°	1230.3	1225.6	1225.6	1232.2	1224.6
180°	1228.4	1228.4	1228.4	1228.4	1228.4

(END OF REPORT)