

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: P1025340

Luminaire Tested: S124DIP-B350D1205UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025340
REPORT IS A COMBINATION OF REPORTS P995835 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B350D1205UB50-4F0-XX-W2A-D4
Description: Define 4 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

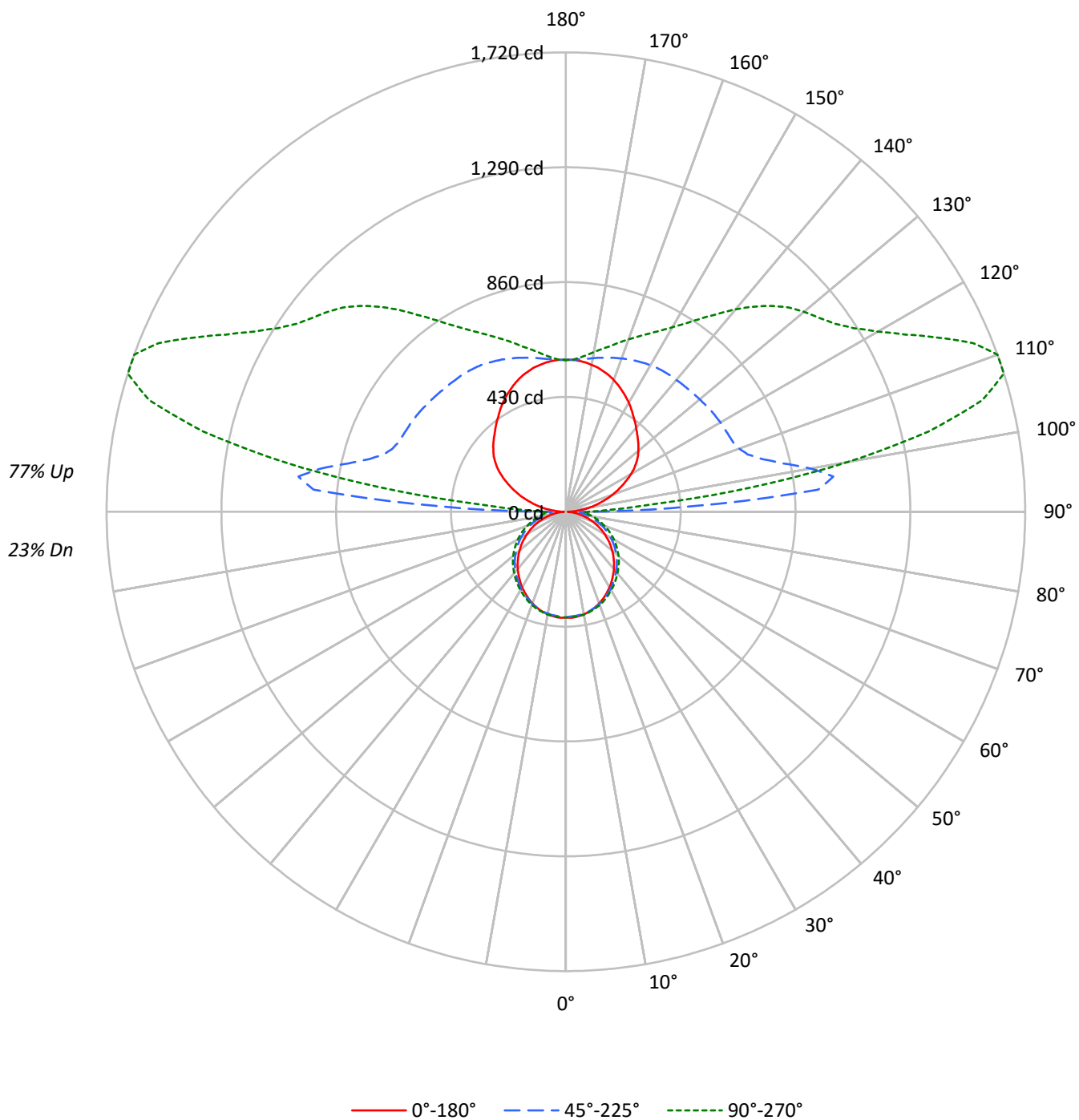
Lumens per Lamp: N/A
Luminaire Lumens: 5499.2 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

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: 45°
Luminance: 2851 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.5	0.7
10°-20°	107.4	2.0
20°-30°	162.4	3.0
30°-40°	196.5	3.6
40°-50°	207.7	3.8
50°-60°	195.5	3.6
60°-70°	162.2	3.0
70°-80°	113.8	2.1
80°-90°	66.4	1.2
90°-100°	460.4	8.4
100°-110°	887.0	16.1
110°-120°	784.4	14.3
120°-130°	653.6	11.9
130°-140°	541.2	9.8
140°-150°	410.7	7.5
150°-160°	288.0	5.2
160°-170°	169.4	3.1
170°-180°	55.1	1.0
0°-30°	307.3	5.6
0°-40°	503.8	9.2
0°-60°	907.0	16.5
0°-90°	1249.5	22.7
90°-120°	2131.8	38.8
90°-150°	3737.3	68.0
90°-180°	4250.0	77.3
0°-180°	5499.2	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°	8	34	64	79	84	7
95°	43	137	949	501	327	45
105°	135	202	762	1618	1615	144
115°	233	295	674	1286	1542	231
125°	322	382	662	1089	1227	287
135°	382	454	648	959	1090	295
145°	439	502	641	802	883	276
155°	499	539	623	706	736	230
165°	544	561	597	633	642	154
175°	567	568	573	581	578	54
180°	568	568	568	568	568	

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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°	8.2	33.7	64.0	79.0	83.8
92.5°	22.2	108.2	478.9	198.2	158.8
95°	42.7	136.6	948.6	501.0	327.0
97.5°	66.7	146.6	1010.1	968.0	706.2
100°	89.8	161.6	931.5	1318.6	1072.7
102.5°	112.1	179.8	834.4	1537.2	1392.1
105°	134.7	202.1	761.7	1617.6	1615.1
107.5°	160.3	225.4	713.8	1590.3	1719.6
110°	185.5	248.1	690.8	1498.2	1719.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	209.7	271.4	678.5	1386.2	1651.0
115°	232.7	295.2	674.1	1285.8	1542.3
117.5°	257.3	318.0	670.7	1206.0	1436.3
120°	281.4	339.6	668.5	1151.4	1348.7
122.5°	303.7	361.2	665.2	1115.1	1279.0
125°	322.3	382.1	662.3	1088.9	1227.3
127.5°	340.2	402.2	657.9	1063.4	1193.8
130°	354.2	421.3	654.6	1033.9	1164.3
132.5°	368.7	438.1	651.6	999.2	1132.0
135°	381.7	454.3	648.3	959.2	1090.2
137.5°	395.1	467.8	646.5	916.8	1041.8
140°	409.6	480.6	644.1	875.4	989.4
142.5°	424.7	492.3	643.2	837.4	933.5
145°	439.3	502.5	641.0	802.2	883.2
147.5°	456.0	512.6	637.6	772.6	836.4
150°	471.6	522.0	634.3	747.0	797.3
152.5°	485.8	531.0	628.7	725.8	763.8
155°	499.2	538.8	623.1	705.7	735.9
157.5°	512.6	546.1	617.5	686.8	710.2
160°	524.8	552.2	610.8	667.8	686.8
162.5°	536.0	557.2	604.1	649.3	664.4
165°	543.8	560.6	597.4	632.6	642.1
167.5°	552.8	563.4	590.7	618.1	624.2
170°	558.3	565.6	584.0	603.6	607.5
172.5°	563.9	567.3	577.3	590.7	590.7
175°	567.3	568.4	572.9	580.7	578.4
177.5°	569.5	568.4	569.5	573.4	569.5
180°	568.4	568.4	568.4	568.4	568.4

(END OF REPORT)