

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: P1025295

Luminaire Tested: S124DIP-B350D1035UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025295
REPORT IS A COMBINATION OF REPORTS P995775 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B350D1035UB50-4F0-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

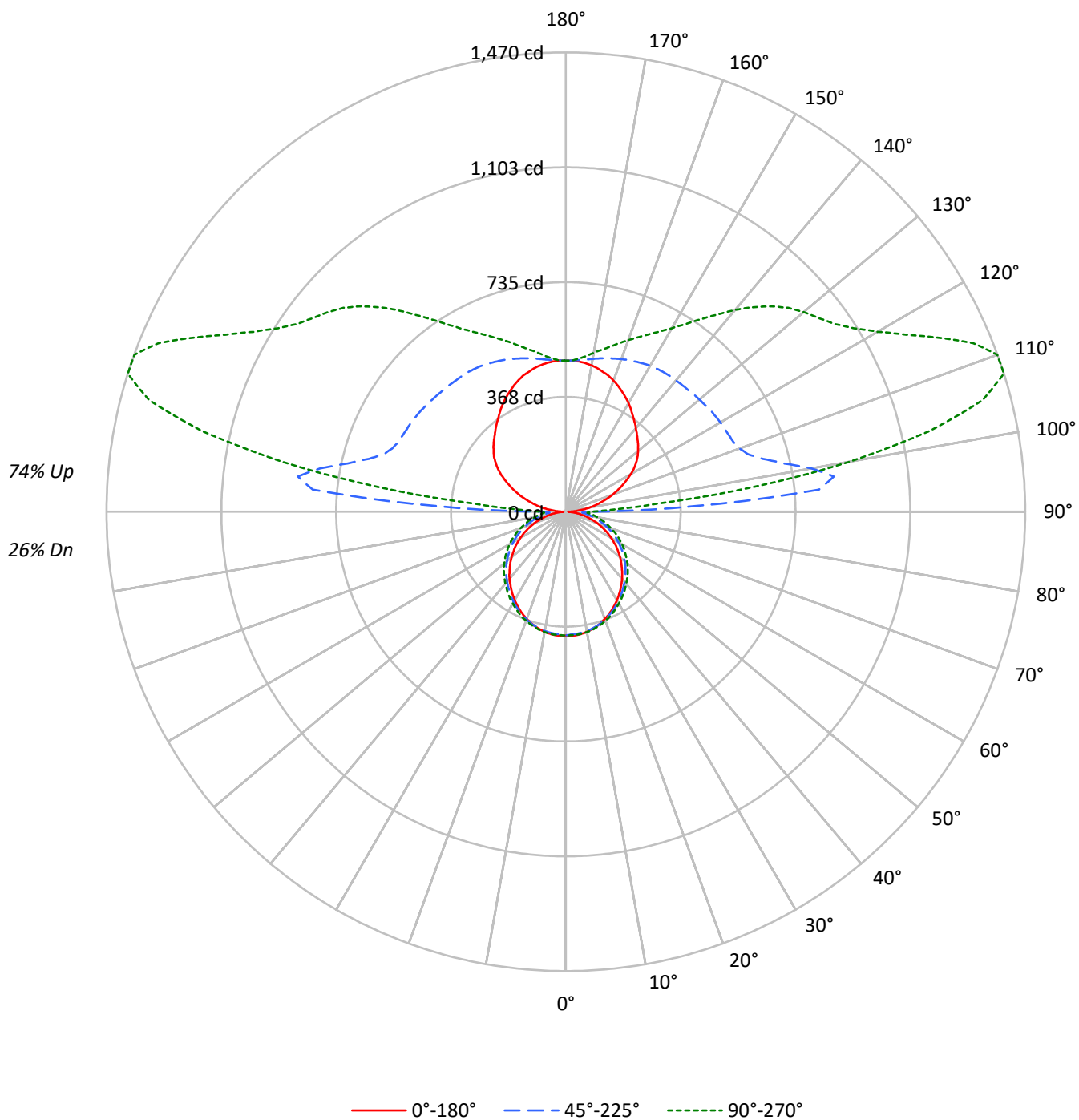
Lumens per Lamp: N/A
Luminaire Lumens: 4881.0 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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°	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	0.8
10°-20°	107.4	2.2
20°-30°	162.4	3.3
30°-40°	196.5	4.0
40°-50°	207.7	4.3
50°-60°	195.5	4.0
60°-70°	162.2	3.3
70°-80°	113.8	2.3
80°-90°	66.0	1.4
90°-100°	397.5	8.1
100°-110°	759.1	15.6
110°-120°	670.4	13.7
120°-130°	557.9	11.4
130°-140°	461.2	9.4
140°-150°	349.6	7.2
150°-160°	245.1	5.0
160°-170°	144.2	3.0
170°-180°	46.9	1.0
0°-30°	307.3	6.3
0°-40°	503.8	10.3
0°-60°	907.0	18.6
0°-90°	1249.1	25.6
90°-120°	1827.0	37.4
90°-150°	3195.7	65.5
90°-180°	3632.0	74.4
0°-180°	4881.0	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°	8	32	61	76	80	7
95°	37	119	813	434	286	39
105°	115	174	653	1383	1381	123
115°	198	252	577	1099	1318	197
125°	274	325	566	930	1048	245
135°	325	387	552	818	930	251
145°	374	428	546	683	752	235
155°	425	459	530	601	626	196
165°	463	477	508	538	546	131
175°	483	484	488	494	492	46
180°	484	484	484	484	484	

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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°	8.1	32.4	61.0	75.7	80.3
92.5°	19.9	95.4	413.7	176.6	143.7
95°	37.2	119.2	813.0	434.0	286.4
97.5°	57.6	127.5	865.0	831.0	608.7
100°	77.1	140.0	797.8	1129.0	920.2
102.5°	96.1	155.2	714.8	1314.6	1191.7
105°	115.2	173.9	652.6	1382.6	1381.0
107.5°	137.0	193.5	611.5	1359.1	1469.6
110°	158.4	212.6	591.7	1280.4	1469.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	178.9	232.2	580.9	1184.6	1410.5
115°	198.5	252.2	576.8	1098.8	1317.6
117.5°	219.4	271.4	573.6	1030.5	1227.0
120°	239.8	289.5	571.4	983.8	1152.1
122.5°	258.8	307.7	568.3	952.4	1092.4
125°	274.5	325.4	565.5	929.8	1048.0
127.5°	289.8	342.5	561.4	907.7	1019.2
130°	301.6	358.7	558.2	882.2	993.7
132.5°	314.0	372.9	555.5	852.4	965.8
135°	325.0	386.8	552.3	818.0	929.8
137.5°	336.4	398.1	550.5	781.6	888.3
140°	348.7	409.0	548.3	745.9	843.3
142.5°	361.5	419.0	547.4	713.4	795.4
145°	373.9	427.6	545.5	683.2	752.3
147.5°	388.1	436.2	542.6	657.6	712.1
150°	401.4	444.3	539.8	635.8	678.5
152.5°	413.4	451.9	535.0	617.8	650.0
155°	424.8	458.6	530.3	600.6	626.3
157.5°	436.2	464.7	525.5	584.4	604.4
160°	446.7	470.0	519.8	568.3	584.5
162.5°	456.2	474.2	514.1	552.6	565.5
165°	462.8	477.0	508.4	538.4	546.4
167.5°	470.4	479.4	502.7	526.0	531.2
170°	475.2	481.4	497.0	513.7	517.0
172.5°	479.9	482.8	491.3	502.8	502.7
175°	482.8	483.7	487.5	494.2	492.3
177.5°	484.7	483.7	484.7	488.0	484.7
180°	483.7	483.7	483.7	483.7	483.7

(END OF REPORT)