

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: P1025385

Luminaire Tested: S124DIP-B350D365UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025385
REPORT IS A COMBINATION OF REPORTS P995895 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B350D365UB50-4F0-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

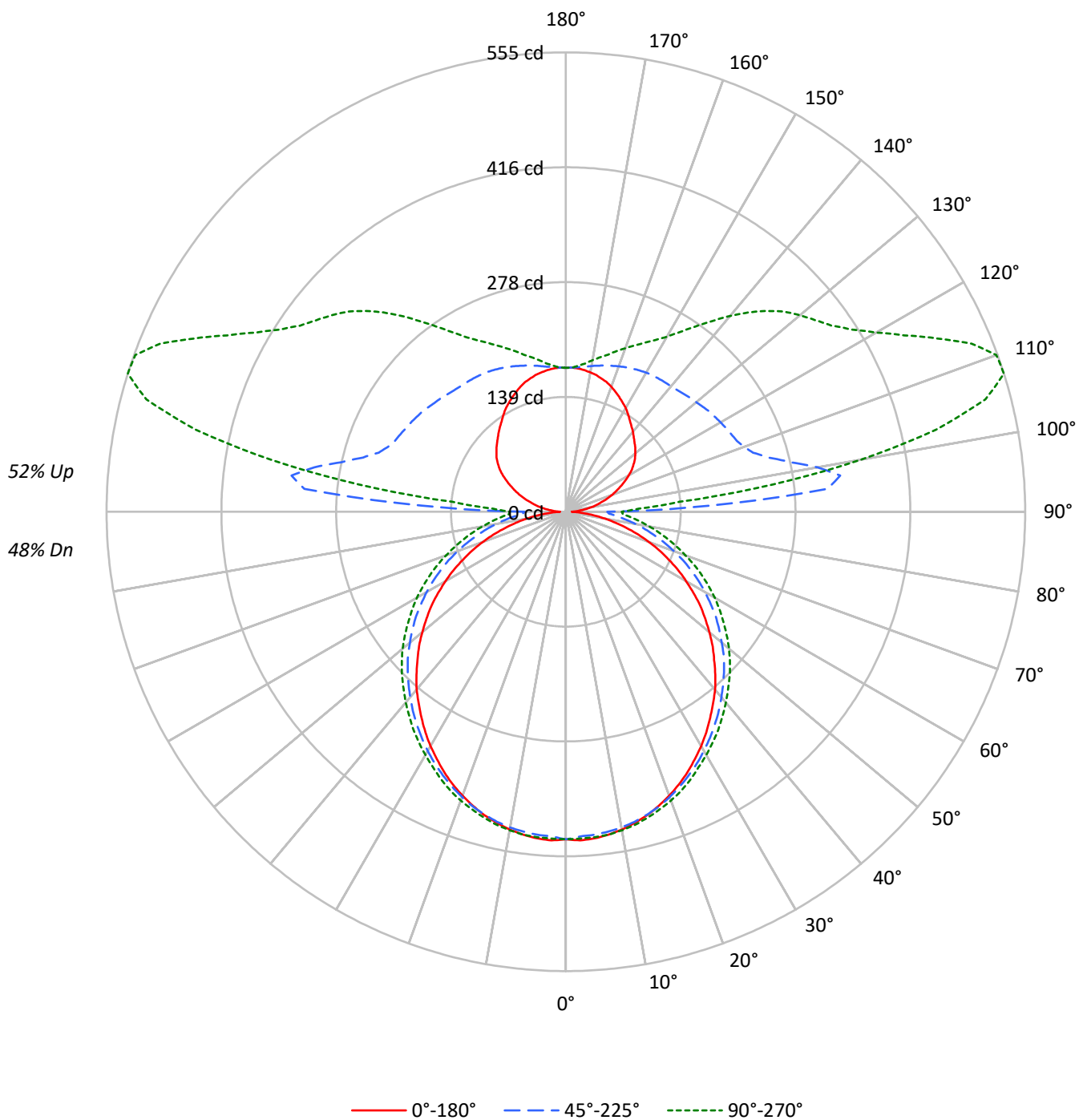
Lumens per Lamp: N/A
Luminaire Lumens: 2619.5 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 22.3
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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54
1	96	92	87	84	88	84	81	77	70	68	65	58	56	54	46	45	44
2	87	79	73	67	80	73	67	63	61	57	53	50	47	44	40	38	36
3	79	69	62	56	72	64	57	52	54	49	44	44	40	37	35	32	30
4	72	61	53	47	66	56	49	44	47	42	37	39	35	31	31	28	26
5	66	54	46	40	61	50	43	37	42	36	32	35	30	27	28	25	22
6	61	49	40	34	56	45	38	32	38	32	28	31	27	24	25	22	19
7	56	44	36	30	52	41	33	28	34	29	24	28	24	21	23	20	17
8	52	40	32	26	48	37	30	25	31	26	22	26	22	18	21	18	15
9	49	36	29	23	45	34	27	22	29	23	19	24	20	16	19	16	14
10	45	33	26	21	42	31	24	20	26	21	17	22	18	15	18	15	12

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	1.4
10°-20°	107.4	4.1
20°-30°	162.4	6.2
30°-40°	196.5	7.5
40°-50°	207.7	7.9
50°-60°	195.5	7.5
60°-70°	162.2	6.2
70°-80°	113.8	4.3
80°-90°	64.8	2.5
90°-100°	167.5	6.4
100°-110°	291.2	11.1
110°-120°	253.3	9.7
120°-130°	207.5	7.9
130°-140°	168.9	6.4
140°-150°	126.3	4.8
150°-160°	88.2	3.4
160°-170°	51.9	2.0
170°-180°	16.9	0.6
0°-30°	307.3	11.7
0°-40°	503.8	19.2
0°-60°	907.0	34.6
0°-90°	1248.0	47.6
90°-120°	711.9	27.2
90°-150°	1214.7	46.4
90°-180°	1372.0	52.4
0°-180°	2619.5	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°	7	28	50	64	68	6
95°	17	56	317	188	138	17
105°	44	71	254	523	525	47
115°	73	95	221	415	496	73
125°	100	118	211	348	392	89
135°	118	140	201	301	343	91
145°	135	154	196	248	273	85
155°	153	165	191	216	225	70
165°	166	172	183	194	197	47
175°	174	174	175	178	177	16
180°	174	174	174	174	174	

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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°	7.4	27.5	50.1	63.5	67.5
92.5°	11.4	48.6	175.2	97.8	88.3
95°	17.1	56.0	317.1	188.4	137.9
97.5°	24.1	57.6	334.4	329.5	252.1
100°	30.9	60.8	308.6	435.4	362.2
102.5°	37.7	65.2	277.3	500.4	458.4
105°	44.0	70.8	253.5	523.2	524.9
107.5°	51.9	77.0	237.2	513.2	555.0
110°	59.2	82.7	229.0	483.2	553.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	66.3	88.9	223.7	447.1	530.6
115°	73.1	95.0	220.8	414.8	495.5
117.5°	80.6	101.0	218.2	388.5	461.6
120°	87.7	106.4	216.0	370.0	432.9
122.5°	94.5	112.1	213.5	357.4	409.7
125°	99.9	117.9	211.4	347.8	392.0
127.5°	105.4	124.0	208.5	338.2	380.2
130°	109.3	129.6	205.9	327.6	369.3
132.5°	113.8	134.8	203.8	315.3	357.9
135°	117.5	139.6	201.3	301.4	343.2
137.5°	121.6	143.5	199.5	286.8	326.6
140°	126.0	147.4	197.8	272.6	309.0
142.5°	130.3	151.0	196.9	259.8	290.3
145°	134.7	153.8	196.2	247.5	273.4
147.5°	139.9	156.9	195.2	236.8	257.6
150°	144.7	159.8	194.2	228.7	244.1
152.5°	148.7	162.6	192.5	222.2	233.8
155°	152.8	165.0	190.8	216.0	225.3
157.5°	156.9	167.1	189.0	210.2	217.4
160°	160.7	169.0	187.0	204.4	210.2
162.5°	164.1	170.6	184.9	198.8	203.4
165°	166.5	171.6	182.9	193.6	196.6
167.5°	169.2	172.4	180.8	189.2	191.1
170°	170.9	173.1	178.8	184.8	186.0
172.5°	172.6	173.6	176.7	180.8	180.8
175°	173.7	174.0	175.4	177.8	177.1
177.5°	174.3	174.0	174.3	175.6	174.3
180°	174.0	174.0	174.0	174.0	174.0

(END OF REPORT)