

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: P1025349

Luminaire Tested: S124DIP-B350D365UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025349
REPORT IS A COMBINATION OF REPORTS P995844 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B350D365UB27-4F0-XX-W2A-D4
Description: Define 4 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

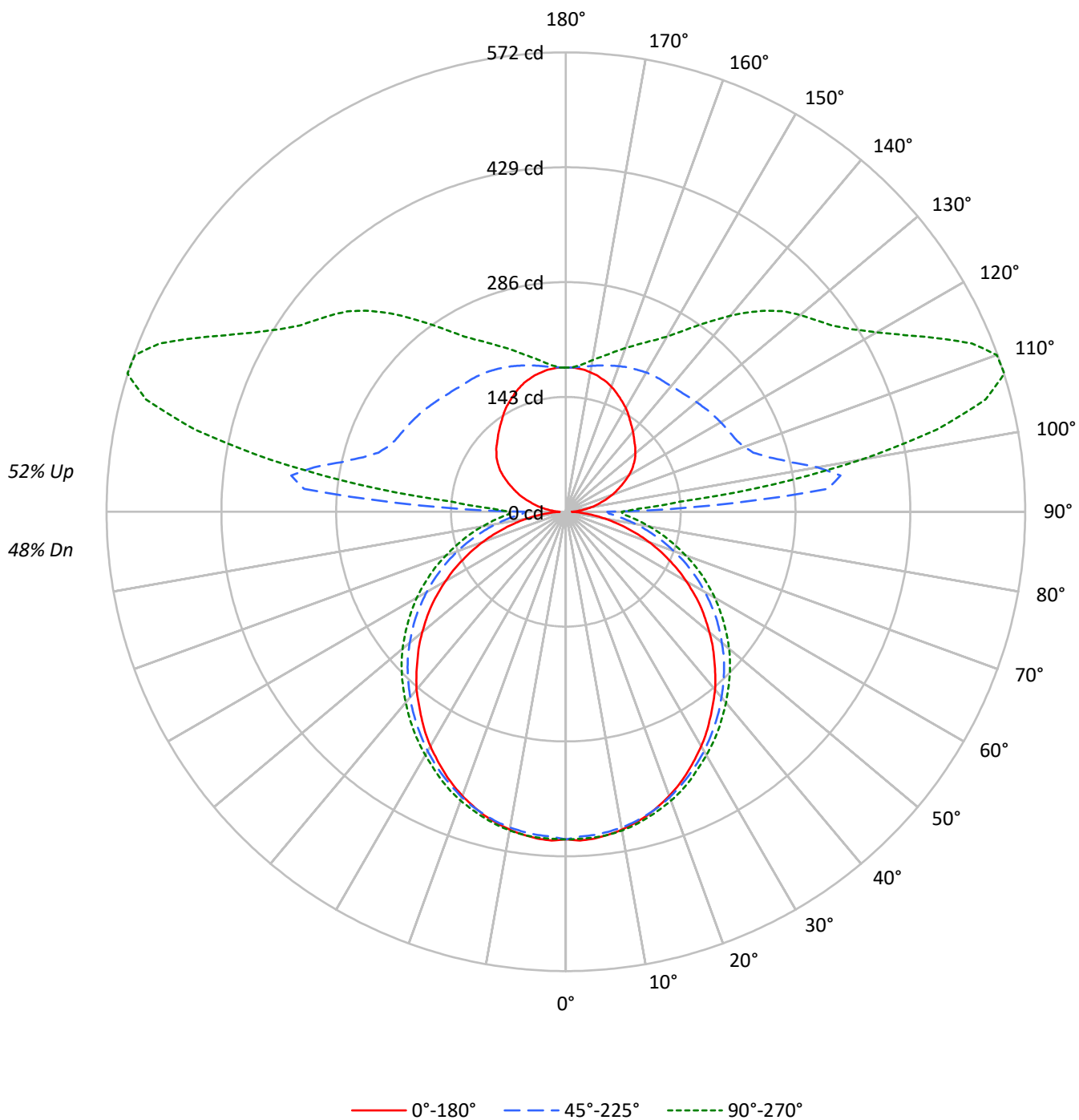
Lumens per Lamp: N/A
Luminaire Lumens: 2701.6 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	83	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	48	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°	3327	3327	3327
5°	3336	3240	3246
10°	3314	3176	3168
15°	3283	3105	3079
20°	3238	3027	2993
25°	3186	2942	2900
30°	3130	2857	2805
35°	3066	2770	2720
40°	3015	2687	2633
45°	2940	2609	2555
50°	2877	2520	2474
55°	2810	2435	2380
60°	2707	2328	2292
65°	2593	2214	2186
70°	2456	2082	2062
75°	2265	1937	1946
80°	2048	1789	1822
85°	1761	1640	1723

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2940 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.7	1.4
10°-20°	110.8	4.1
20°-30°	167.5	6.2
30°-40°	202.6	7.5
40°-50°	214.2	7.9
50°-60°	201.6	7.5
60°-70°	167.3	6.2
70°-80°	117.4	4.3
80°-90°	66.9	2.5
90°-100°	172.7	6.4
100°-110°	300.4	11.1
110°-120°	261.3	9.7
120°-130°	214.0	7.9
130°-140°	174.2	6.4
140°-150°	130.4	4.8
150°-160°	91.0	3.4
160°-170°	53.5	2.0
170°-180°	17.4	0.6
0°-30°	316.9	11.7
0°-40°	519.5	19.2
0°-60°	935.3	34.6
0°-90°	1286.8	47.6
90°-120°	734.4	27.2
90°-150°	1253.0	46.4
90°-180°	1415.0	52.4
0°-180°	2701.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	408	408	408	408	408	
5°	408	407	404	408	407	39
15°	392	392	391	395	394	110
25°	358	361	362	367	368	165
35°	313	319	324	330	331	196
45°	261	270	279	286	289	202
55°	205	214	228	237	240	182
65°	142	156	172	183	187	140
75°	79	96	115	128	132	84
85°	24	43	64	78	82	25
90°	8	28	52	66	70	6
95°	18	58	327	194	142	17
105°	45	73	262	540	541	49
115°	75	98	228	428	511	75
125°	103	122	218	359	404	92
135°	121	144	208	311	354	94
145°	139	159	202	255	282	87
155°	158	170	197	223	232	73
165°	172	177	189	200	203	49
175°	179	180	181	183	183	17
180°	180	180	180	180	180	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	408.0	408.0	408.0	408.0	408.0
2.5°	409.8	408.4	404.8	408.0	407.5
5°	408.4	407.1	403.9	407.5	407.1
7.5°	405.7	404.8	402.0	406.2	405.7
10°	402.0	401.6	399.3	403.4	403.0
12.5°	397.0	397.0	395.7	399.3	399.3
15°	391.5	392.0	390.6	394.7	394.3
17.5°	384.2	385.6	385.1	389.3	388.8
20°	376.5	377.8	378.3	382.9	382.9
22.5°	367.8	369.6	370.5	375.1	376.0
25°	358.2	360.9	362.3	367.3	367.8
27.5°	347.7	351.8	353.6	358.2	358.6
30°	337.2	340.8	344.0	349.1	350.0
32.5°	325.8	330.3	334.0	339.9	340.8
35°	313.4	318.9	323.5	329.9	331.2
37.5°	301.1	307.5	313.0	319.4	320.7
40°	289.2	295.1	301.5	308.4	310.2
42.5°	275.5	282.3	290.1	297.9	299.3
45°	261.3	270.0	278.7	286.5	288.7
47.5°	248.1	256.8	266.8	274.6	277.3
50°	233.5	243.5	253.6	262.7	265.4
52.5°	218.8	228.9	240.8	249.9	252.7
55°	204.7	214.3	228.0	237.1	239.9
57.5°	188.7	200.6	213.8	224.8	227.1
60°	173.2	185.0	200.1	210.6	214.3
62.5°	158.1	171.3	186.4	196.9	200.6
65°	141.6	156.3	171.8	183.2	186.9
67.5°	126.1	141.6	158.1	169.5	173.2
70°	110.1	125.6	143.0	155.3	158.5
72.5°	94.6	110.6	129.3	141.2	144.8
75°	78.6	95.5	114.7	127.5	131.6
77.5°	63.5	81.3	101.4	114.2	118.8
80°	49.8	68.1	88.2	101.9	105.5
82.5°	36.1	55.3	75.4	89.5	93.7
85°	24.2	43.4	64.0	77.7	82.2
87.5°	15.1	33.8	53.9	67.2	71.3
90°	7.7	28.4	51.5	65.6	69.5
92.5°	11.8	50.0	180.7	101.0	91.0
95°	17.5	57.7	327.1	194.4	142.2
97.5°	24.9	59.2	345.0	339.8	260.1
100°	31.8	62.8	318.2	449.2	373.7
102.5°	38.9	67.3	285.9	516.2	472.9
105°	45.4	73.0	261.5	539.7	541.4
107.5°	53.5	79.4	244.8	529.5	572.5
110°	61.2	85.4	236.2	498.5	570.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	68.4	91.8	230.8	461.2	547.4
115°	75.3	98.1	227.8	427.8	511.1
117.5°	83.1	104.2	225.1	400.8	476.0
120°	90.5	109.8	222.8	381.6	446.5
122.5°	97.5	115.6	220.2	368.7	422.7
125°	103.0	121.6	218.0	358.8	404.3
127.5°	108.6	128.0	215.0	348.7	392.2
130°	112.8	133.7	212.4	337.8	381.0
132.5°	117.4	139.0	210.2	325.4	369.2
135°	121.1	144.1	207.6	310.8	354.1
137.5°	125.4	148.1	205.8	295.8	336.9
140°	130.0	152.2	204.0	281.2	318.7
142.5°	134.5	155.9	203.1	267.9	299.6
145°	139.1	158.7	202.4	255.2	282.1
147.5°	144.4	161.9	201.4	244.4	265.7
150°	149.3	164.8	200.3	235.9	251.8
152.5°	153.4	167.7	198.5	229.2	241.2
155°	157.6	170.2	196.8	222.9	232.4
157.5°	161.9	172.4	195.0	216.8	224.3
160°	165.7	174.4	192.9	210.9	216.9
162.5°	169.3	176.0	190.8	205.0	209.8
165°	171.7	177.0	188.7	199.8	202.8
167.5°	174.6	177.9	186.5	195.2	197.1
170°	176.3	178.6	184.4	190.6	191.8
172.5°	178.1	179.2	182.3	186.6	186.5
175°	179.1	179.5	180.9	183.4	182.7
177.5°	179.8	179.5	179.8	181.1	179.8
180°	179.5	179.5	179.5	179.5	179.5

(END OF REPORT)