

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: P1025367

Luminaire Tested: S124DIP-B350D365UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025367
REPORT IS A COMBINATION OF REPORTS P995877 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B350D365UB35-4F0-XX-W2A-D4
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

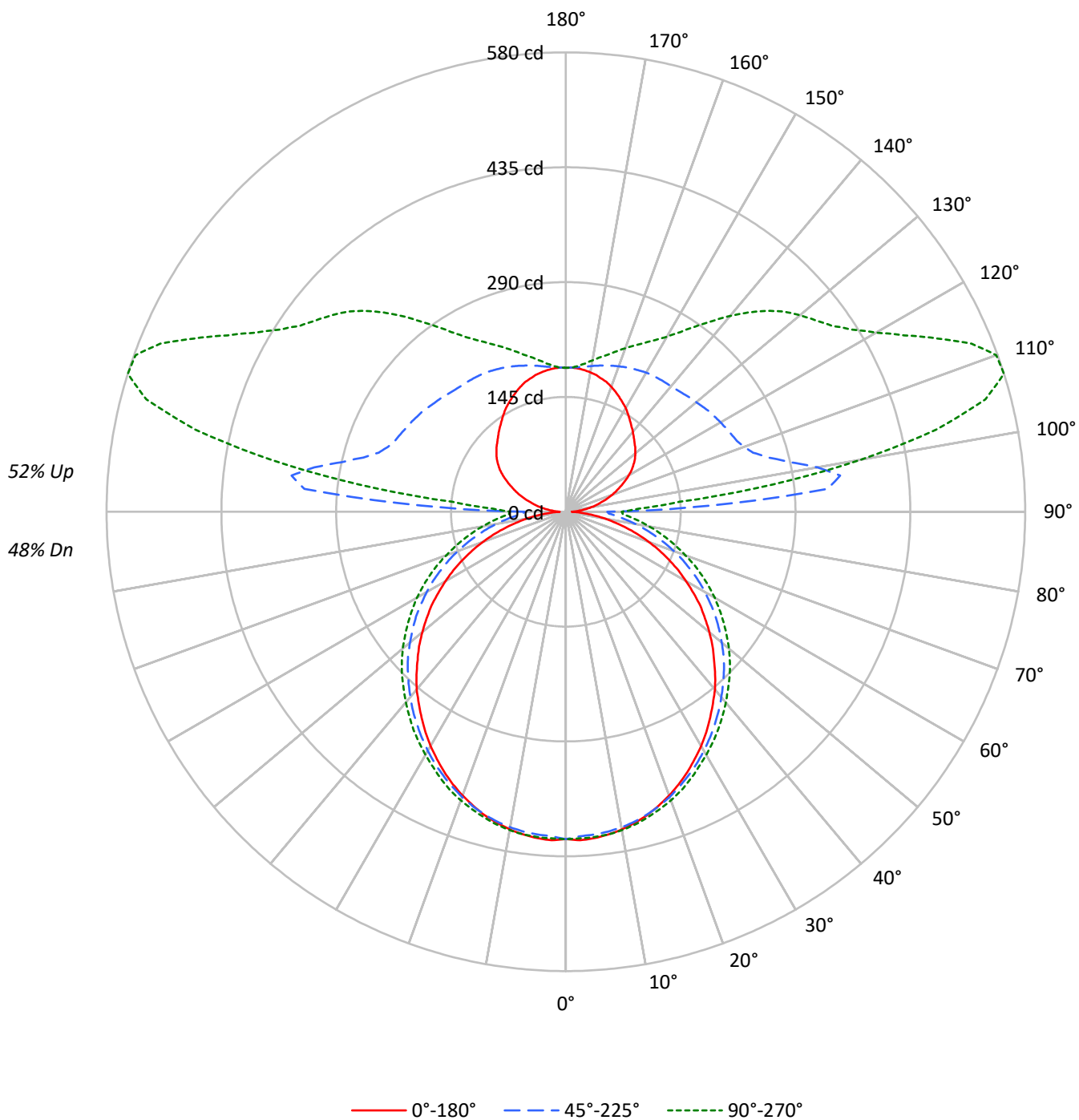
Lumens per Lamp: N/A
Luminaire Lumens: 2736.7 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	3370	3370	3370
5°	3379	3282	3288
10°	3358	3218	3209
15°	3326	3145	3119
20°	3279	3066	3031
25°	3227	2980	2937
30°	3170	2894	2841
35°	3106	2806	2755
40°	3054	2721	2667
45°	2978	2643	2589
50°	2913	2552	2506
55°	2846	2466	2411
60°	2742	2358	2321
65°	2628	2242	2214
70°	2488	2110	2089
75°	2294	1962	1971
80°	2073	1811	1847
85°	1783	1660	1746

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2978 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.2	1.4
10°-20°	112.2	4.1
20°-30°	169.6	6.2
30°-40°	205.2	7.5
40°-50°	217.0	7.9
50°-60°	204.2	7.5
60°-70°	169.4	6.2
70°-80°	118.9	4.3
80°-90°	67.7	2.5
90°-100°	175.0	6.4
100°-110°	304.3	11.1
110°-120°	264.7	9.7
120°-130°	216.9	7.9
130°-140°	176.5	6.4
140°-150°	132.0	4.8
150°-160°	92.1	3.4
160°-170°	54.2	2.0
170°-180°	17.6	0.6
0°-30°	321.0	11.7
0°-40°	526.2	19.2
0°-60°	947.4	34.6
0°-90°	1303.4	47.6
90°-120°	743.9	27.2
90°-150°	1269.3	46.4
90°-180°	1433.0	52.4
0°-180°	2736.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	413	413	413	413	413	
5°	414	412	409	413	412	39
15°	397	397	396	400	399	112
25°	363	366	367	372	372	167
35°	318	323	328	334	336	199
45°	265	274	282	290	292	205
55°	207	217	231	240	243	185
65°	144	158	174	186	189	142
75°	80	97	116	129	133	85
85°	24	44	65	79	83	26
90°	8	29	52	66	70	6
95°	18	58	331	197	144	18
105°	46	74	265	547	548	49
115°	76	99	231	433	518	76
125°	104	123	221	364	410	93
135°	123	146	210	315	359	95
145°	141	161	205	259	286	88
155°	160	172	199	226	235	74
165°	174	179	191	202	205	49
175°	182	182	183	186	185	17
180°	182	182	182	182	182	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	413.3	413.3	413.3	413.3	413.3
2.5°	415.1	413.7	410.0	413.3	412.8
5°	413.7	412.3	409.1	412.8	412.3
7.5°	411.0	410.0	407.3	411.4	411.0
10°	407.3	406.8	404.5	408.6	408.2
12.5°	402.2	402.2	400.8	404.5	404.5
15°	396.6	397.1	395.7	399.8	399.4
17.5°	389.2	390.6	390.1	394.3	393.8
20°	381.3	382.7	383.2	387.8	387.8
22.5°	372.5	374.4	375.3	379.9	380.9
25°	362.8	365.6	367.0	372.1	372.5
27.5°	352.2	356.3	358.2	362.8	363.3
30°	341.5	345.2	348.5	353.6	354.5
32.5°	330.0	334.6	338.3	344.3	345.2
35°	317.5	323.0	327.7	334.1	335.5
37.5°	305.0	311.5	317.0	323.5	324.9
40°	292.9	299.0	305.4	312.4	314.2
42.5°	279.1	286.0	293.9	301.7	303.1
45°	264.7	273.5	282.3	290.2	292.5
47.5°	251.3	260.1	270.3	278.1	280.9
50°	236.5	246.7	256.8	266.1	268.9
52.5°	221.7	231.9	243.9	253.1	255.9
55°	207.3	217.0	230.9	240.2	243.0
57.5°	191.1	203.2	216.6	227.7	230.0
60°	175.4	187.4	202.7	213.3	217.0
62.5°	160.1	173.5	188.8	199.5	203.2
65°	143.5	158.3	174.0	185.6	189.3
67.5°	127.7	143.5	160.1	171.7	175.4
70°	111.5	127.3	144.9	157.3	160.6
72.5°	95.8	112.0	131.0	143.0	146.7
75°	79.6	96.7	116.2	129.1	133.3
77.5°	64.3	82.4	102.7	115.7	120.3
80°	50.4	69.0	89.3	103.2	106.9
82.5°	36.6	56.0	76.4	90.7	94.9
85°	24.5	44.0	64.8	78.7	83.3
87.5°	15.3	34.2	54.6	68.0	72.2
90°	7.8	28.8	52.2	66.3	70.4
92.5°	11.9	50.6	183.0	102.2	92.2
95°	17.8	58.4	331.4	197.0	144.1
97.5°	25.2	60.1	349.4	344.4	263.4
100°	32.2	63.6	322.4	455.0	378.5
102.5°	39.4	68.2	289.7	522.8	479.1
105°	46.0	74.0	264.8	546.7	548.4
107.5°	54.2	80.4	247.9	536.3	579.9
110°	61.9	86.4	239.3	505.0	578.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	69.3	92.9	233.8	467.2	554.4
115°	76.4	99.2	230.8	433.4	517.8
117.5°	84.2	105.6	228.0	406.1	482.3
120°	91.6	111.2	225.7	386.6	452.3
122.5°	98.7	117.2	223.1	373.5	428.1
125°	104.4	123.2	220.9	363.5	409.6
127.5°	110.1	129.6	217.8	353.4	397.3
130°	114.3	135.4	215.1	342.3	385.9
132.5°	118.9	140.8	213.0	329.6	374.0
135°	122.7	146.0	210.3	314.9	358.7
137.5°	127.0	150.0	208.4	299.7	341.3
140°	131.6	154.1	206.7	284.8	322.9
142.5°	136.2	157.8	205.8	271.5	303.4
145°	140.9	160.8	205.0	258.6	285.7
147.5°	146.2	164.0	204.0	247.5	269.1
150°	151.2	167.0	202.9	239.0	255.1
152.5°	155.4	169.9	201.1	232.2	244.3
155°	159.7	172.4	199.3	225.8	235.4
157.5°	164.0	174.6	197.5	219.7	227.2
160°	167.9	176.6	195.4	213.6	219.7
162.5°	171.5	178.2	193.3	207.8	212.5
165°	174.0	179.4	191.1	202.4	205.4
167.5°	176.8	180.2	189.0	197.8	199.7
170°	178.6	181.0	186.8	193.0	194.3
172.5°	180.4	181.4	184.7	189.0	189.0
175°	181.5	181.8	183.3	185.8	185.0
177.5°	182.2	181.8	182.2	183.4	182.2
180°	181.8	181.8	181.8	181.8	181.8

(END OF REPORT)