

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: P1026306

Luminaire Tested: S124RDIP-B350D365UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026306
REPORT IS A COMBINATION OF REPORTS P999326 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B350D365UB35-4F0-XX-W2A-F4
Description: Define 4 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

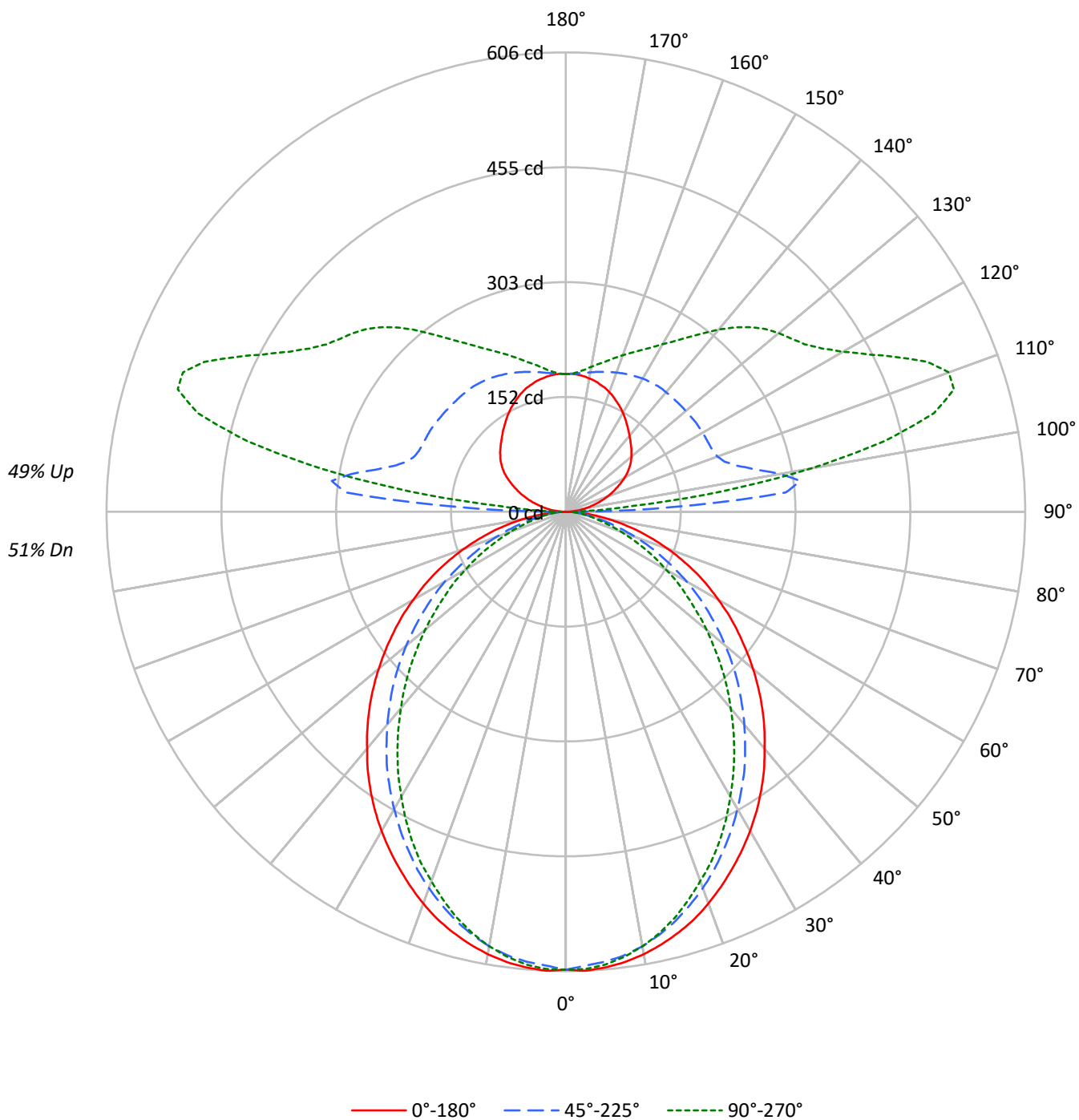
Lumens per Lamp: N/A
Luminaire Lumens: 2723.6 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	99	99	99	99	84	84	84	70	70	70	57	57	57
1	98	94	90	87	91	87	84	81	74	72	70	62	61	59	51	50	49
2	90	83	77	71	83	77	71	67	65	61	58	55	52	50	45	43	42
3	82	73	66	60	76	68	61	56	58	53	49	49	45	42	40	38	36
4	75	65	57	51	69	60	53	48	52	46	42	44	40	36	36	33	31
5	69	58	50	44	64	54	47	41	46	41	36	39	35	32	33	30	27
6	64	52	44	38	59	48	41	36	42	36	32	36	31	28	30	27	24
7	59	47	39	33	54	44	37	32	38	32	28	32	28	25	27	24	21
8	55	43	35	30	51	40	33	28	35	29	25	30	25	22	25	22	19
9	51	39	31	26	47	36	30	25	32	26	23	27	23	20	23	20	17
10	48	36	29	24	44	34	27	23	29	24	20	25	21	18	22	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4927	4927	4927
5°	4927	4780	4781
10°	4885	4630	4575
15°	4819	4441	4331
20°	4730	4228	4053
25°	4620	3996	3782
30°	4513	3761	3477
35°	4395	3522	3180
40°	4254	3265	2874
45°	4122	3010	2571
50°	3972	2731	2264
55°	3811	2446	1946
60°	3630	2142	1633
65°	3456	1794	1331
70°	3210	1429	1017
75°	2893	1039	711
80°	2418	639	511
85°	1819	366	281

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4122 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	2.1
10°-20°	158.4	5.8
20°-30°	228.7	8.4
30°-40°	259.2	9.5
40°-50°	250.3	9.2
50°-60°	208.1	7.6
60°-70°	143.6	5.3
70°-80°	72.6	2.7
80°-90°	19.1	0.7
90°-100°	135.1	5.0
100°-110°	274.7	10.1
110°-120°	244.9	9.0
120°-130°	205.7	7.6
130°-140°	171.6	6.3
140°-150°	131.1	4.8
150°-160°	92.1	3.4
160°-170°	54.2	2.0
170°-180°	17.6	0.6
0°-30°	443.9	16.3
0°-40°	703.1	25.8
0°-60°	1161.4	42.6
0°-90°	1396.7	51.3
90°-120°	654.6	24.0
90°-150°	1163.0	42.7
90°-180°	1327.0	48.7
0°-180°	2723.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	604	604	604	604	604	
5°	603	601	596	600	600	57
15°	575	570	559	558	555	162
25°	520	511	492	484	480	239
35°	449	434	411	396	387	281
45°	366	349	322	299	290	283
55°	278	259	229	205	196	248
65°	189	169	139	119	114	186
75°	100	83	62	51	48	106
85°	25	16	14	13	13	27
90°	0	3	6	7	8	2
95°	12	37	291	144	87	13
105°	42	61	234	505	503	45
115°	74	92	209	402	483	73
125°	102	122	208	342	385	91
135°	122	145	206	303	344	94
145°	140	161	205	256	281	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°	604.2	604.2	604.2	604.2	604.2
2.5°	606.0	604.2	599.1	604.2	603.7
5°	603.2	601.4	595.8	600.5	599.5
7.5°	599.1	597.2	590.3	593.5	592.1
10°	592.6	590.3	582.0	583.8	582.0
12.5°	584.3	581.5	571.3	572.3	569.5
15°	574.6	570.4	558.8	557.9	554.7
17.5°	563.5	557.4	544.0	541.7	537.1
20°	550.0	544.0	528.3	524.6	518.6
22.5°	535.2	528.3	511.2	505.2	500.5
25°	519.5	511.2	492.2	484.4	479.7
27.5°	503.3	493.1	473.3	464.0	457.5
30°	486.2	474.6	452.9	441.3	433.9
32.5°	468.2	454.7	432.1	418.2	411.3
35°	449.2	434.4	411.3	395.5	387.2
37.5°	429.3	414.0	388.6	371.5	363.1
40°	408.0	392.8	366.4	347.0	338.6
42.5°	387.7	371.5	343.7	323.8	315.0
45°	366.4	349.3	321.5	298.8	290.5
47.5°	344.6	327.1	298.4	274.8	265.5
50°	322.4	304.4	274.8	251.7	242.9
52.5°	299.8	282.2	251.7	228.1	218.8
55°	277.6	259.1	229.0	204.9	196.1
57.5°	255.8	236.4	206.8	182.3	175.8
60°	232.2	213.7	184.1	160.1	152.7
62.5°	211.0	191.5	161.0	139.2	133.7
65°	188.7	168.9	139.2	119.4	113.8
67.5°	165.6	146.6	118.9	101.3	94.8
70°	143.9	124.4	98.1	82.8	78.2
72.5°	120.7	103.6	79.1	66.6	62.5
75°	100.4	83.3	61.5	50.9	48.1
77.5°	79.1	64.3	45.8	38.4	37.5
80°	58.8	45.3	31.5	30.1	29.6
82.5°	41.2	29.1	22.7	21.7	21.3
85°	25.0	15.7	14.3	13.4	13.4
87.5°	10.6	6.9	6.5	6.0	6.5
90°	0.4	2.9	6.4	7.1	7.5
92.5°	5.0	27.5	140.0	46.2	32.5
95°	11.8	37.2	291.1	144.2	87.2
97.5°	19.6	41.1	311.5	294.4	209.3
100°	27.1	46.4	287.2	407.2	327.6
102.5°	34.3	52.8	256.8	478.0	430.5
105°	41.8	60.6	234.3	504.6	502.6
107.5°	50.0	68.4	219.7	496.5	536.9
110°	58.2	76.2	212.9	468.0	537.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	66.1	84.1	209.7	433.0	516.5
115°	73.6	92.4	209.0	401.5	482.6
117.5°	81.4	100.0	208.6	376.9	449.4
120°	89.3	107.5	208.6	360.2	422.2
122.5°	96.4	114.8	208.3	349.4	400.8
125°	102.5	121.8	207.9	341.7	385.1
127.5°	108.2	128.2	207.2	334.4	375.1
130°	112.9	134.5	206.8	325.6	366.5
132.5°	117.5	139.8	206.5	315.2	356.9
135°	121.8	145.0	206.1	303.3	344.4
137.5°	126.1	149.5	206.1	290.4	329.7
140°	130.7	153.6	205.8	277.9	313.6
142.5°	135.7	157.4	205.8	266.4	296.5
145°	140.4	160.8	205.0	255.8	281.1
147.5°	145.7	164.0	204.0	247.0	266.8
150°	150.7	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)