

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: P1026329

Luminaire Tested: S124RDIP-B350D590UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026329
REPORT IS A COMBINATION OF REPORTS P999359 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B350D590UB30-4F0-XX-W2A-F1
Description: Define 4 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

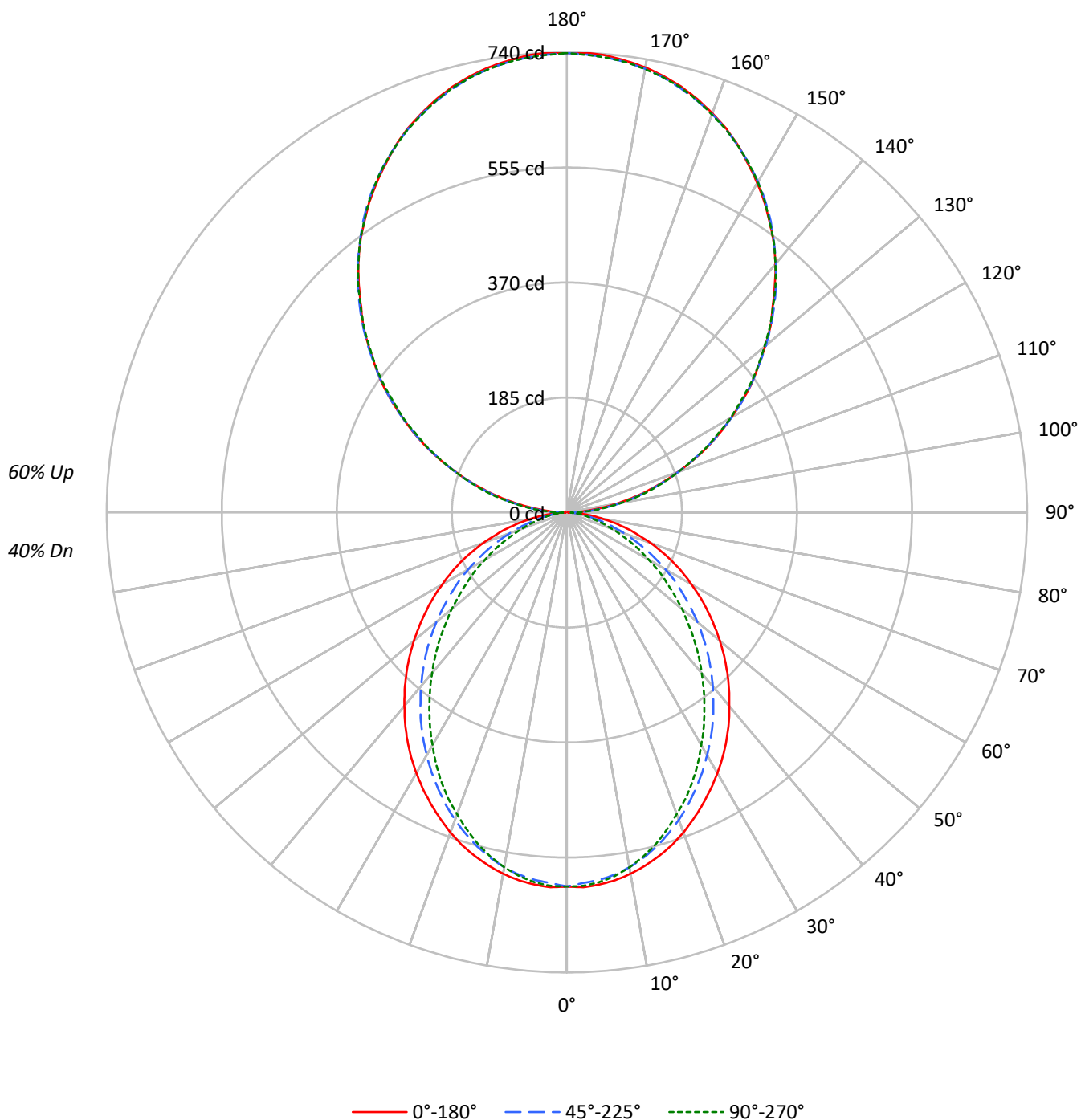
Lumens per Lamp: N/A
Luminaire Lumens: 3442.0 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 28.4
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	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47
1	96	92	88	85	87	84	81	78	69	66	64	55	53	52	42	41	40
2	87	80	74	69	79	73	68	64	60	57	54	48	46	44	37	36	34
3	80	71	64	58	72	65	59	54	53	49	45	43	40	37	33	31	29
4	73	63	55	49	66	57	51	46	48	43	39	38	35	32	30	27	25
5	67	56	48	42	61	51	44	39	43	37	33	34	31	28	27	24	22
6	62	50	42	37	56	46	39	34	38	33	29	31	27	24	25	22	20
7	57	45	37	32	52	42	35	30	35	30	26	28	25	22	22	20	18
8	53	41	33	28	48	38	31	26	32	27	23	26	22	19	21	18	16
9	49	37	30	25	45	35	28	24	29	24	20	24	20	17	19	16	14
10	46	34	27	23	42	32	25	21	27	22	18	22	18	16	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4906	4906	4906
5°	4906	4760	4761
10°	4865	4610	4555
15°	4798	4422	4312
20°	4710	4209	4036
25°	4601	3979	3766
30°	4493	3744	3463
35°	4376	3507	3166
40°	4236	3251	2862
45°	4104	2996	2560
50°	3956	2719	2254
55°	3794	2435	1938
60°	3614	2133	1626
65°	3441	1786	1325
70°	3197	1423	1012
75°	2882	1035	708
80°	2406	635	510
85°	1812	366	281

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4104 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.6	1.6
10°-20°	157.7	4.6
20°-30°	227.7	6.6
30°-40°	258.1	7.5
40°-50°	249.2	7.2
50°-60°	207.2	6.0
60°-70°	143.0	4.2
70°-80°	72.3	2.1
80°-90°	19.9	0.6
90°-100°	48.2	1.4
100°-110°	144.3	4.2
110°-120°	245.1	7.1
120°-130°	323.2	9.4
130°-140°	363.1	10.5
140°-150°	356.8	10.4
150°-160°	300.1	8.7
160°-170°	199.7	5.8
170°-180°	69.9	2.0
0°-30°	442.0	12.8
0°-40°	700.1	20.3
0°-60°	1156.4	33.6
0°-90°	1391.6	40.4
90°-120°	437.5	12.7
90°-150°	1480.7	43.0
90°-180°	2050.0	59.6
0°-180°	3442.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	602	602	602	602	602	
5°	601	599	593	598	597	57
15°	572	568	556	556	552	161
25°	517	509	490	482	478	238
35°	447	432	410	394	386	280
45°	365	348	320	298	289	281
55°	276	258	228	204	195	247
65°	188	168	139	119	113	186
75°	100	83	61	51	48	105
85°	25	16	14	13	13	27
90°	2	8	13	16	17	4
95°	34	39	43	45	45	37
105°	133	134	136	138	140	141
115°	249	249	248	248	247	246
125°	363	363	362	361	360	323
135°	468	472	472	470	469	362
145°	569	571	572	571	569	356
155°	652	652	651	653	651	300
165°	709	708	706	710	708	200
175°	738	735	734	738	734	70
180°	739	739	739	739	739	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	601.6	601.6	601.6	601.6	601.6
2.5°	603.4	601.6	596.5	601.6	601.1
5°	600.7	598.8	593.3	597.9	597.0
7.5°	596.5	594.7	587.8	591.0	589.6
10°	590.1	587.8	579.5	581.3	579.5
12.5°	581.8	579.0	568.9	569.8	567.0
15°	572.1	567.9	556.4	555.5	552.3
17.5°	561.0	555.1	541.7	539.4	534.8
20°	547.7	541.7	526.0	522.3	516.4
22.5°	532.9	526.0	509.0	503.0	498.4
25°	517.3	509.0	490.1	482.3	477.7
27.5°	501.2	491.0	471.2	462.0	455.6
30°	484.1	472.6	450.9	439.4	432.1
32.5°	466.2	452.8	430.2	416.4	409.5
35°	447.3	432.5	409.5	393.8	385.5
37.5°	427.5	412.3	386.9	369.9	361.6
40°	406.3	391.1	364.8	345.5	337.2
42.5°	386.0	369.9	342.2	322.4	313.7
45°	364.8	347.8	320.1	297.6	289.3
47.5°	343.2	325.7	297.1	273.6	264.4
50°	321.1	303.1	273.6	250.6	241.8
52.5°	298.5	281.0	250.6	227.1	217.9
55°	276.4	257.9	228.0	204.1	195.3
57.5°	254.7	235.4	205.9	181.5	175.0
60°	231.2	212.8	183.3	159.4	152.0
62.5°	210.0	190.7	160.3	138.6	133.1
65°	187.9	168.1	138.6	118.8	113.3
67.5°	164.9	146.0	118.4	100.9	94.4
70°	143.3	123.9	97.7	82.5	77.8
72.5°	120.2	103.2	78.8	66.3	62.2
75°	100.0	82.9	61.3	50.7	47.9
77.5°	78.8	64.0	45.6	38.2	37.3
80°	58.5	45.1	31.3	29.9	29.5
82.5°	41.0	29.0	22.6	21.6	21.2
85°	24.9	15.7	14.3	13.4	13.4
87.5°	10.6	6.9	6.4	6.0	6.4
90°	1.7	8.0	12.6	16.0	17.1
92.5°	14.9	22.3	25.1	26.9	27.4
95°	34.3	39.4	43.4	45.2	45.2
97.5°	54.9	59.4	64.0	66.3	66.3
100°	80.0	82.3	87.4	88.6	88.6
102.5°	106.3	106.9	111.4	113.2	113.7
105°	133.2	133.7	136.0	137.7	139.5
107.5°	161.2	161.7	162.3	164.6	164.0
110°	189.7	190.9	190.3	189.2	190.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	219.5	219.5	218.3	218.3	218.3
115°	249.2	249.2	248.0	247.5	246.9
117.5°	277.2	277.2	276.6	274.9	273.2
120°	305.2	307.5	305.8	302.9	304.1
122.5°	334.3	334.9	334.3	332.6	329.8
125°	362.9	362.9	362.3	361.2	360.1
127.5°	388.6	390.4	389.2	388.1	387.5
130°	416.1	417.8	417.8	416.6	414.4
132.5°	444.1	445.2	444.7	443.5	442.9
135°	468.1	471.5	471.5	470.4	468.7
137.5°	494.9	496.7	497.8	496.1	496.7
140°	521.8	522.9	522.9	522.4	521.8
142.5°	546.4	547.5	547.0	547.0	547.0
145°	568.7	571.0	571.5	571.0	569.2
147.5°	591.5	594.4	593.8	593.2	592.7
150°	612.1	614.4	614.4	614.4	613.8
152.5°	631.5	632.7	633.3	635.0	633.3
155°	651.5	651.5	651.0	653.3	651.0
157.5°	668.7	667.5	667.5	669.3	667.5
160°	683.5	683.0	682.4	684.1	681.3
162.5°	697.3	695.6	695.0	698.4	695.6
165°	709.3	707.6	706.4	709.8	707.6
167.5°	719.0	716.7	716.7	720.1	716.7
170°	727.0	724.1	724.7	728.1	724.1
172.5°	732.7	730.4	730.4	734.4	730.4
175°	737.8	735.0	734.4	738.4	734.4
177.5°	740.1	737.3	737.3	741.3	736.7
180°	739.0	739.0	739.0	739.0	739.0

(END OF REPORT)