

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: P1026300

Luminaire Tested: S124RDIP-B350D365UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026300
REPORT IS A COMBINATION OF REPORTS P999320 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B350D365UB30-4F0-XX-W2A-F4
Description: Define 4 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

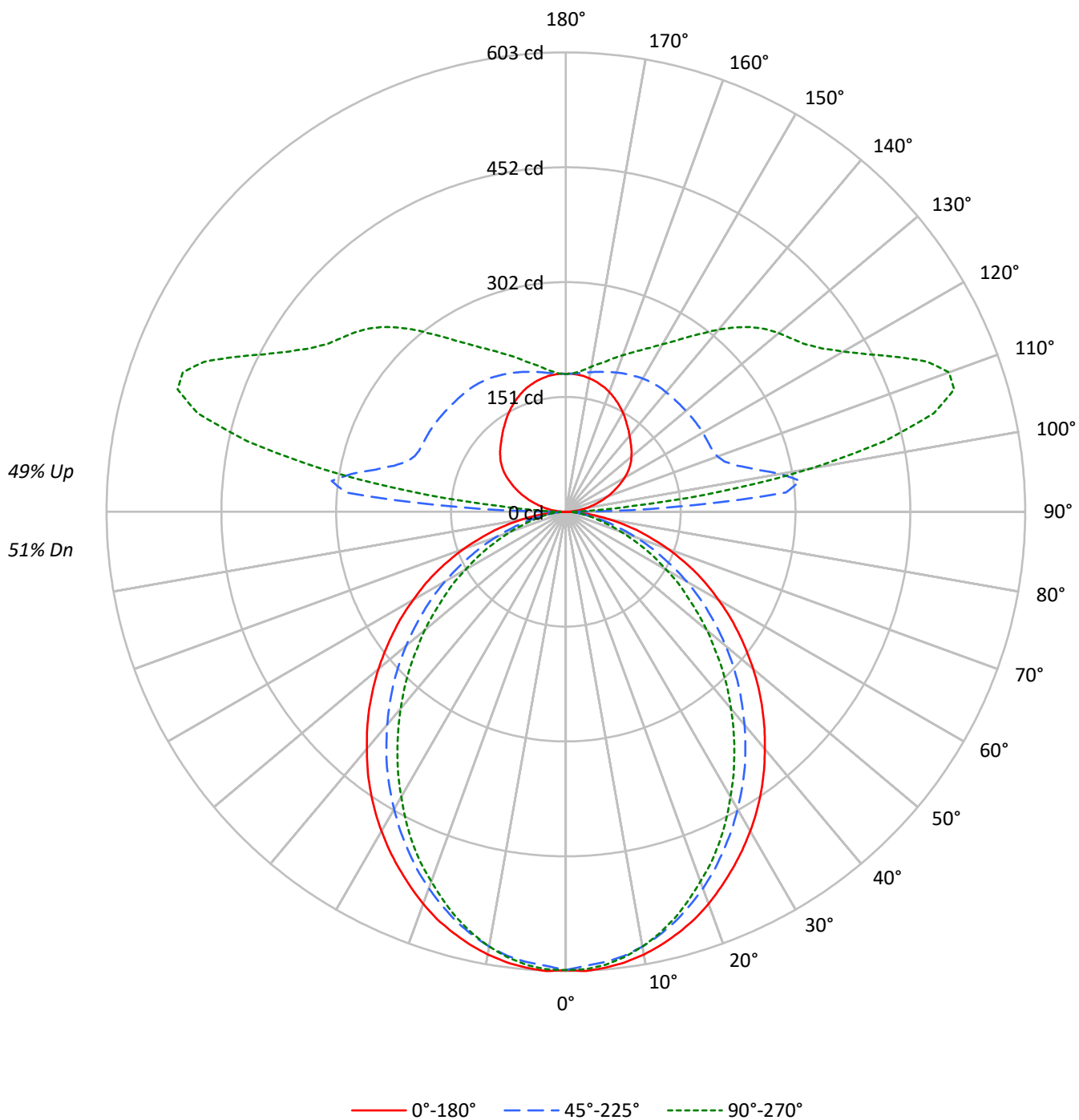
Lumens per Lamp: N/A
Luminaire Lumens: 2711.6 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	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	2.1
10°-20°	157.7	5.8
20°-30°	227.7	8.4
30°-40°	258.1	9.5
40°-50°	249.2	9.2
50°-60°	207.2	7.6
60°-70°	143.0	5.3
70°-80°	72.3	2.7
80°-90°	19.0	0.7
90°-100°	134.4	5.0
100°-110°	273.5	10.1
110°-120°	243.7	9.0
120°-130°	204.7	7.6
130°-140°	170.9	6.3
140°-150°	130.5	4.8
150°-160°	91.7	3.4
160°-170°	53.9	2.0
170°-180°	17.5	0.6
0°-30°	442.0	16.3
0°-40°	700.1	25.8
0°-60°	1156.4	42.6
0°-90°	1390.7	51.3
90°-120°	651.6	24.0
90°-150°	1157.7	42.7
90°-180°	1321.0	48.7
0°-180°	2711.6	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°	0	3	6	7	8	2
95°	12	37	290	143	87	13
105°	42	60	233	502	500	44
115°	73	92	208	400	480	73
125°	102	121	207	340	383	91
135°	121	144	205	302	343	94
145°	140	160	204	255	280	88
155°	159	172	198	225	234	73
165°	173	178	190	201	204	49
175°	181	181	182	185	184	17
180°	181	181	181	181	181	

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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°	0.4	2.8	6.4	7.1	7.5
92.5°	5.0	27.4	139.4	46.0	32.4
95°	11.7	37.0	289.8	143.4	86.8
97.5°	19.6	40.9	310.1	293.0	208.4
100°	27.0	46.2	285.9	405.4	326.1
102.5°	34.1	52.6	255.7	475.8	428.5
105°	41.6	60.2	233.3	502.3	500.3
107.5°	49.8	68.1	218.7	494.3	534.5
110°	58.0	75.9	211.9	465.8	535.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	65.8	83.7	208.7	431.0	514.2
115°	73.3	91.9	208.0	399.7	480.4
117.5°	81.1	99.6	207.7	375.2	447.4
120°	88.9	107.0	207.7	358.6	420.3
122.5°	96.0	114.3	207.3	347.8	399.0
125°	102.1	121.2	207.0	340.2	383.3
127.5°	107.7	127.6	206.3	332.8	373.4
130°	112.4	133.8	205.9	324.2	364.9
132.5°	117.0	139.2	205.5	313.8	355.2
135°	121.3	144.4	205.2	301.9	342.8
137.5°	125.5	148.9	205.2	289.1	328.2
140°	130.2	152.9	204.8	276.6	312.2
142.5°	135.1	156.6	204.8	265.1	295.2
145°	139.8	160.0	204.1	254.6	279.9
147.5°	145.1	163.2	203.1	245.9	265.6
150°	150.1	166.2	202.0	237.9	253.9
152.5°	154.7	169.1	200.2	231.2	243.2
155°	159.0	171.6	198.4	224.8	234.3
157.5°	163.2	173.9	196.6	218.7	226.2
160°	167.1	175.9	194.5	212.6	218.7
162.5°	170.7	177.4	192.4	206.8	211.6
165°	173.2	178.5	190.2	201.4	204.5
167.5°	176.0	179.4	188.1	196.9	198.8
170°	177.8	180.1	186.0	192.2	193.4
172.5°	179.6	180.6	183.8	188.2	188.1
175°	180.6	181.0	182.4	184.9	184.2
177.5°	181.4	181.0	181.4	182.6	181.4
180°	181.0	181.0	181.0	181.0	181.0

(END OF REPORT)