

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: P1013345

Luminaire Tested: S124RDIP-B350D810UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1013345
REPORT IS A COMBINATION OF REPORTS P999392 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B350D810UB2750-4F0-XX-W2A-F_3500K
Description: Define 4 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

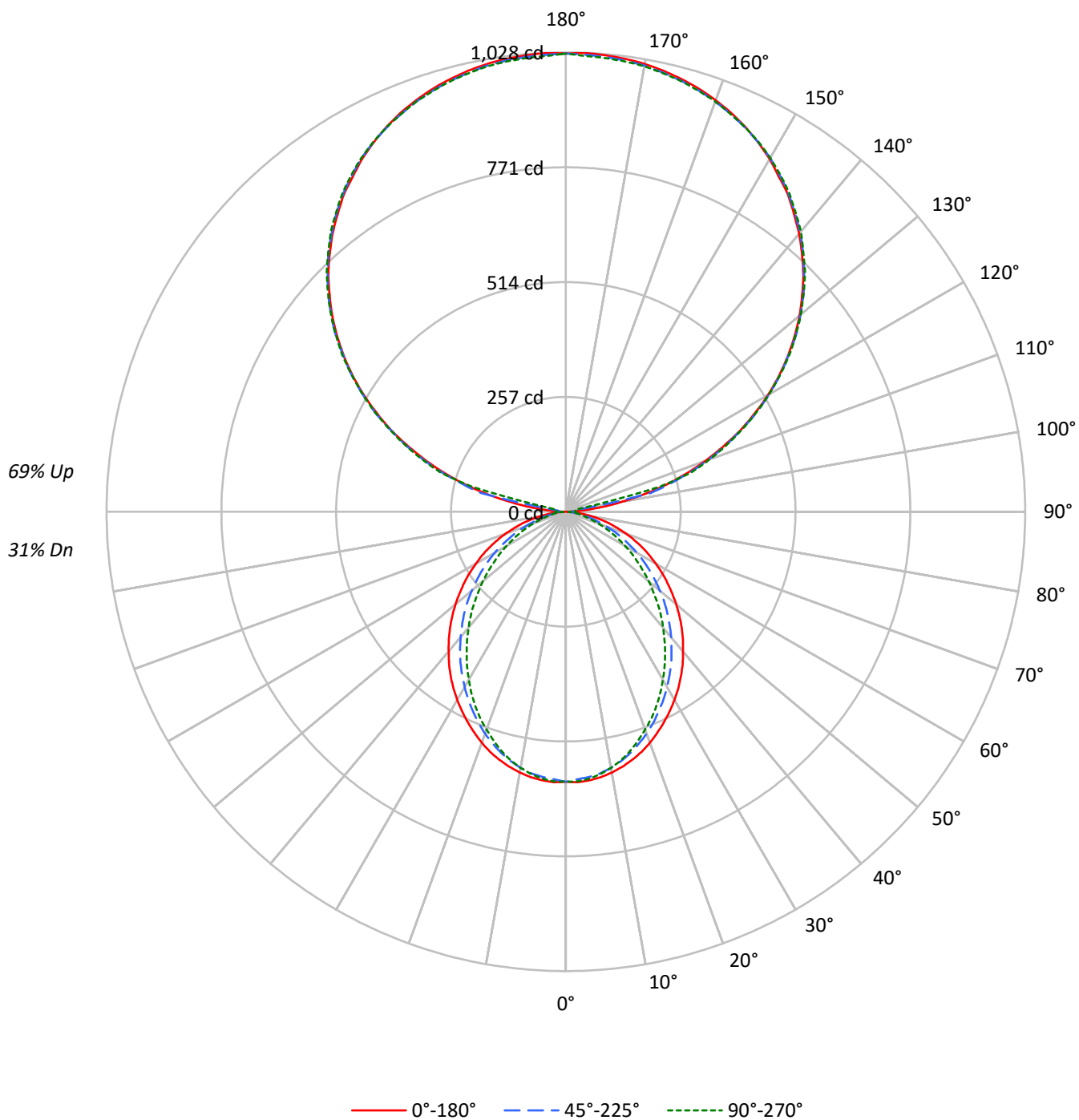
Lumens per Lamp: N/A
Luminaire Lumens: 4571.0 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	38	38	38
1	94	89	86	82	84	81	77	75	64	62	60	48	47	46	34	33	33
2	85	78	72	68	76	71	66	61	56	53	50	43	40	38	30	29	28
3	78	69	62	56	70	62	56	51	49	45	42	38	35	33	27	25	24
4	71	61	53	48	64	55	49	44	44	39	36	34	31	28	24	22	21
5	65	54	46	41	58	49	42	37	39	34	31	30	27	24	22	20	18
6	60	49	41	35	54	44	37	32	35	30	27	27	24	21	20	18	16
7	56	44	36	31	50	40	33	28	32	27	24	25	21	19	18	16	14
8	51	40	32	27	46	36	30	25	29	24	21	23	19	17	17	14	13
9	48	36	29	24	43	33	27	22	27	22	19	21	17	15	15	13	11
10	45	33	26	21	40	30	24	20	24	20	17	19	16	13	14	12	10

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	1.2
10°-20°	158.4	3.5
20°-30°	228.7	5.0
30°-40°	259.2	5.7
40°-50°	250.3	5.5
50°-60°	208.1	4.6
60°-70°	143.6	3.1
70°-80°	72.6	1.6
80°-90°	20.5	0.4
90°-100°	34.0	0.7
100°-110°	224.1	4.9
110°-120°	428.0	9.4
120°-130°	543.4	11.9
130°-140°	581.3	12.7
140°-150°	543.6	11.9
150°-160°	438.3	9.6
160°-170°	282.7	6.2
170°-180°	97.4	2.1
0°-30°	443.9	9.7
0°-40°	703.1	15.4
0°-60°	1161.4	25.4
0°-90°	1398.1	30.6
90°-120°	686.2	15.0
90°-150°	2354.4	51.5
90°-180°	3173.0	69.4
0°-180°	4571.0	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°	2	11	17	22	23	4
95°	42	16	17	22	22	52
105°	231	235	239	246	219	242
115°	431	433	432	434	434	424
125°	606	609	607	610	610	541
135°	752	751	754	755	757	579
145°	867	869	869	870	871	542
155°	950	951	949	952	950	438
165°	1002	998	998	1005	998	283
175°	1025	1021	1022	1028	1019	98
180°	1025	1025	1025	1025	1025	

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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°	2.3	10.7	16.9	21.5	23.0
92.5°	11.5	10.0	16.1	20.7	20.7
95°	42.2	16.1	16.9	21.5	22.2
97.5°	80.5	97.4	16.9	20.7	21.5
100°	125.8	139.6	33.7	20.7	21.5
102.5°	176.4	185.6	194.8	22.2	22.2
105°	230.8	235.4	239.3	246.2	218.6
107.5°	280.7	283.0	288.4	292.2	295.3
110°	331.3	333.6	338.2	339.7	342.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	380.4	385.0	386.5	385.8	388.8
115°	431.0	433.3	432.5	434.1	434.1
117.5°	476.3	479.3	481.6	480.9	480.9
120°	522.3	525.3	524.6	526.1	524.6
122.5°	565.2	566.8	568.3	569.1	567.5
125°	605.9	608.9	607.4	609.7	610.5
127.5°	645.0	645.8	649.6	648.8	648.1
130°	682.6	683.3	685.6	686.4	686.4
132.5°	717.1	718.6	721.7	722.4	721.7
135°	751.6	750.8	753.9	755.4	757.0
137.5°	782.3	782.3	786.1	787.6	786.9
140°	812.2	813.7	815.2	817.5	818.3
142.5°	839.0	842.1	842.9	844.4	844.4
145°	866.6	868.9	868.9	869.7	871.2
147.5°	888.1	892.7	891.9	892.7	893.5
150°	911.9	914.9	914.2	914.2	914.9
152.5°	931.8	934.1	932.6	934.1	933.3
155°	950.2	951.0	948.7	951.8	949.5
157.5°	966.3	966.3	963.3	967.1	963.3
160°	980.1	977.8	977.1	981.7	977.1
162.5°	992.4	989.3	988.6	993.2	987.8
165°	1002.4	998.5	998.5	1004.7	997.8
167.5°	1010.8	1007.0	1006.2	1013.1	1005.4
170°	1017.7	1013.1	1013.9	1020.0	1012.3
172.5°	1022.3	1017.7	1018.5	1024.6	1016.2
175°	1025.4	1020.8	1021.5	1028.4	1019.2
177.5°	1027.7	1022.3	1023.8	1030.0	1020.8
180°	1025.4	1025.4	1025.4	1025.4	1025.4

(END OF REPORT)