

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: P1013287

Luminaire Tested: S124RDIP-B1195D590UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1013287
REPORT IS A COMBINATION OF REPORTS P999152 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B1195D590UB2750-4F0-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

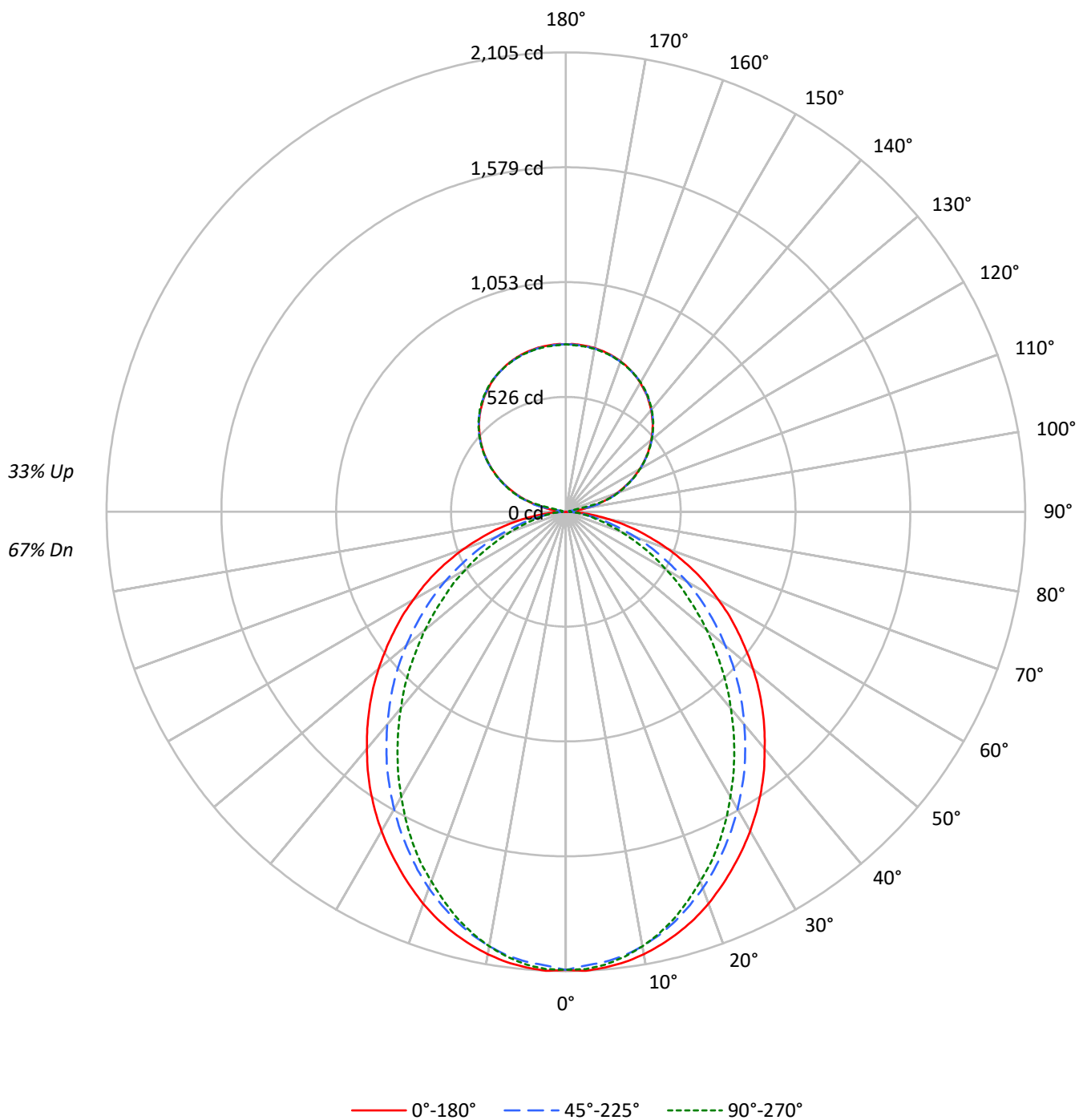
Lumens per Lamp: N/A
Luminaire Lumens: 7227.0 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 76.7
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	50	30	10
RCR																				
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67		
1	102	98	94	90	96	92	89	86	82	80	77	73	71	69	64	63	61	57		
2	93	86	80	74	88	81	76	71	72	68	65	64	61	58	57	54	52	49		
3	85	76	68	62	80	72	65	60	64	59	55	57	53	50	51	48	45	42		
4	78	67	59	53	73	64	57	51	57	52	47	51	47	43	46	42	39	36		
5	72	60	52	46	68	57	50	44	51	45	41	46	41	37	41	37	34	31		
6	66	54	46	40	63	52	44	39	47	40	36	42	37	33	37	33	30	28		
7	62	49	41	35	58	47	39	34	42	36	32	38	33	29	34	30	27	25		
8	57	45	37	32	54	43	36	31	39	33	28	35	30	26	32	27	24	22		
9	54	41	33	28	50	39	32	27	36	30	26	32	27	24	29	25	22	20		
10	50	38	31	26	47	36	29	25	33	27	23	30	25	22	27	23	20	18		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17116	17116	17116
5°	17118	16608	16610
10°	16973	16084	15893
15°	16740	15431	15046
20°	16434	14687	14082
25°	16052	13885	13139
30°	15679	13066	12082
35°	15268	12236	11047
40°	14780	11342	9985
45°	14321	10456	8933
50°	13800	9489	7864
55°	13237	8496	6762
60°	12612	7443	5673
65°	12008	6234	4624
70°	11150	4961	3534
75°	10052	3611	2471
80°	8394	2217	1777
85°	6316	1276	977

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14321 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.4	2.7
10°-20°	550.3	7.6
20°-30°	794.5	11.0
30°-40°	900.5	12.5
40°-50°	869.4	12.0
50°-60°	722.8	10.0
60°-70°	498.9	6.9
70°-80°	252.1	3.5
80°-90°	65.6	0.9
90°-100°	25.5	0.4
100°-110°	167.8	2.3
110°-120°	320.5	4.4
120°-130°	406.8	5.6
130°-140°	435.2	6.0
140°-150°	406.9	5.6
150°-160°	328.2	4.5
160°-170°	211.6	2.9
170°-180°	72.9	1.0
0°-30°	1542.2	21.3
0°-40°	2442.7	33.8
0°-60°	4035.0	55.8
0°-90°	4851.6	67.1
90°-120°	513.8	7.1
90°-150°	1762.7	24.4
90°-180°	2375.0	32.9
0°-180°	7227.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2099	2099	2099	2099	2099	
5°	2096	2089	2070	2086	2083	199
15°	1996	1982	1942	1938	1927	563
25°	1805	1776	1710	1683	1667	832
35°	1561	1509	1429	1374	1345	975
45°	1273	1213	1117	1038	1009	982
55°	964	900	796	712	682	863
65°	656	587	484	415	395	648
75°	349	289	214	177	167	368
85°	87	55	50	47	47	95
90°	2	8	13	16	17	7
95°	32	12	13	16	17	39
105°	173	176	179	184	164	181
115°	323	324	324	325	325	318
125°	454	456	455	456	457	405
135°	563	562	564	566	567	434
145°	649	650	650	651	652	405
155°	711	712	710	712	711	328
165°	750	748	748	752	747	212
175°	768	764	765	770	763	73
180°	768	768	768	768	768	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2099.0	2099.0	2099.0	2099.0	2099.0
2.5°	2105.4	2099.0	2081.3	2099.0	2097.4
5°	2095.8	2089.4	2070.1	2086.2	2082.9
7.5°	2081.3	2074.9	2050.8	2062.1	2057.2
10°	2058.8	2050.8	2021.9	2028.3	2021.9
12.5°	2029.9	2020.3	1984.9	1988.1	1978.5
15°	1996.2	1981.7	1941.5	1938.3	1927.0
17.5°	1957.6	1936.7	1890.1	1882.0	1866.0
20°	1911.0	1890.1	1835.4	1822.6	1801.7
22.5°	1859.5	1835.4	1776.0	1755.1	1739.0
25°	1804.9	1776.0	1710.1	1682.7	1666.7
27.5°	1748.6	1713.3	1644.2	1612.0	1589.5
30°	1689.2	1649.0	1573.5	1533.3	1507.6
32.5°	1626.5	1579.9	1501.1	1452.9	1428.8
35°	1560.6	1509.2	1428.8	1374.2	1345.2
37.5°	1491.5	1438.5	1350.1	1290.6	1261.7
40°	1417.6	1364.5	1272.9	1205.4	1176.5
42.5°	1346.8	1290.6	1194.2	1125.0	1094.5
45°	1272.9	1213.4	1117.0	1038.3	1009.3
47.5°	1197.4	1136.3	1036.7	954.7	922.5
50°	1120.2	1057.5	954.7	874.3	843.8
52.5°	1041.5	980.4	874.3	792.4	760.2
55°	964.3	900.0	795.6	712.0	681.5
57.5°	888.8	821.3	718.4	633.2	610.7
60°	806.8	742.5	639.7	556.1	530.4
62.5°	732.9	665.4	559.3	483.8	464.5
65°	655.7	586.6	483.8	414.7	395.4
67.5°	575.4	509.5	413.1	352.0	329.5
70°	499.8	432.3	340.7	287.7	271.6
72.5°	419.5	360.0	274.8	231.4	217.0
75°	348.8	289.3	213.8	176.8	167.1
77.5°	274.8	223.4	159.1	133.4	130.2
80°	204.1	157.5	109.3	104.5	102.9
82.5°	143.0	101.3	78.8	75.5	73.9
85°	86.8	54.6	49.8	46.6	46.6
87.5°	37.0	24.1	22.5	20.9	22.5
90°	1.7	8.0	12.6	16.1	17.2
92.5°	8.6	7.5	12.1	15.5	15.5
95°	31.6	12.1	12.6	16.1	16.7
97.5°	60.3	72.9	12.6	15.5	16.1
100°	94.2	104.5	25.3	15.5	16.1
102.5°	132.1	138.9	145.8	16.7	16.7
105°	172.8	176.3	179.1	184.3	163.6
107.5°	210.1	211.9	215.9	218.8	221.1
110°	248.0	249.8	253.2	254.4	256.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	284.8	288.2	289.4	288.8	291.1
115°	322.7	324.4	323.8	325.0	325.0
117.5°	356.6	358.9	360.6	360.0	360.0
120°	391.0	393.3	392.7	393.9	392.7
122.5°	423.2	424.3	425.5	426.0	424.9
125°	453.6	455.9	454.7	456.5	457.0
127.5°	482.9	483.4	486.3	485.7	485.2
130°	511.0	511.6	513.3	513.9	513.9
132.5°	536.8	538.0	540.3	540.9	540.3
135°	562.7	562.1	564.4	565.6	566.7
137.5°	585.7	585.7	588.5	589.7	589.1
140°	608.0	609.2	610.3	612.1	612.6
142.5°	628.1	630.4	631.0	632.2	632.2
145°	648.8	650.5	650.5	651.1	652.3
147.5°	664.9	668.3	667.8	668.3	668.9
150°	682.7	685.0	684.4	684.4	685.0
152.5°	697.6	699.3	698.2	699.3	698.8
155°	711.4	712.0	710.2	712.5	710.8
157.5°	723.5	723.5	721.2	724.0	721.2
160°	733.8	732.1	731.5	734.9	731.5
162.5°	743.0	740.7	740.1	743.5	739.5
165°	750.4	747.6	747.6	752.2	747.0
167.5°	756.8	753.9	753.3	758.5	752.7
170°	761.9	758.5	759.0	763.6	757.9
172.5°	765.4	761.9	762.5	767.1	760.8
175°	767.7	764.2	764.8	770.0	763.1
177.5°	769.4	765.4	766.5	771.1	764.2
180°	767.7	767.7	767.7	767.7	767.7

(END OF REPORT)