

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: P1025958

Luminaire Tested: S124RDIP-B1020D1035UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025958
REPORT IS A COMBINATION OF REPORTS P998858 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B1020D1035UB50-4F0-XX-W2A-F4
Description: Define 4 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

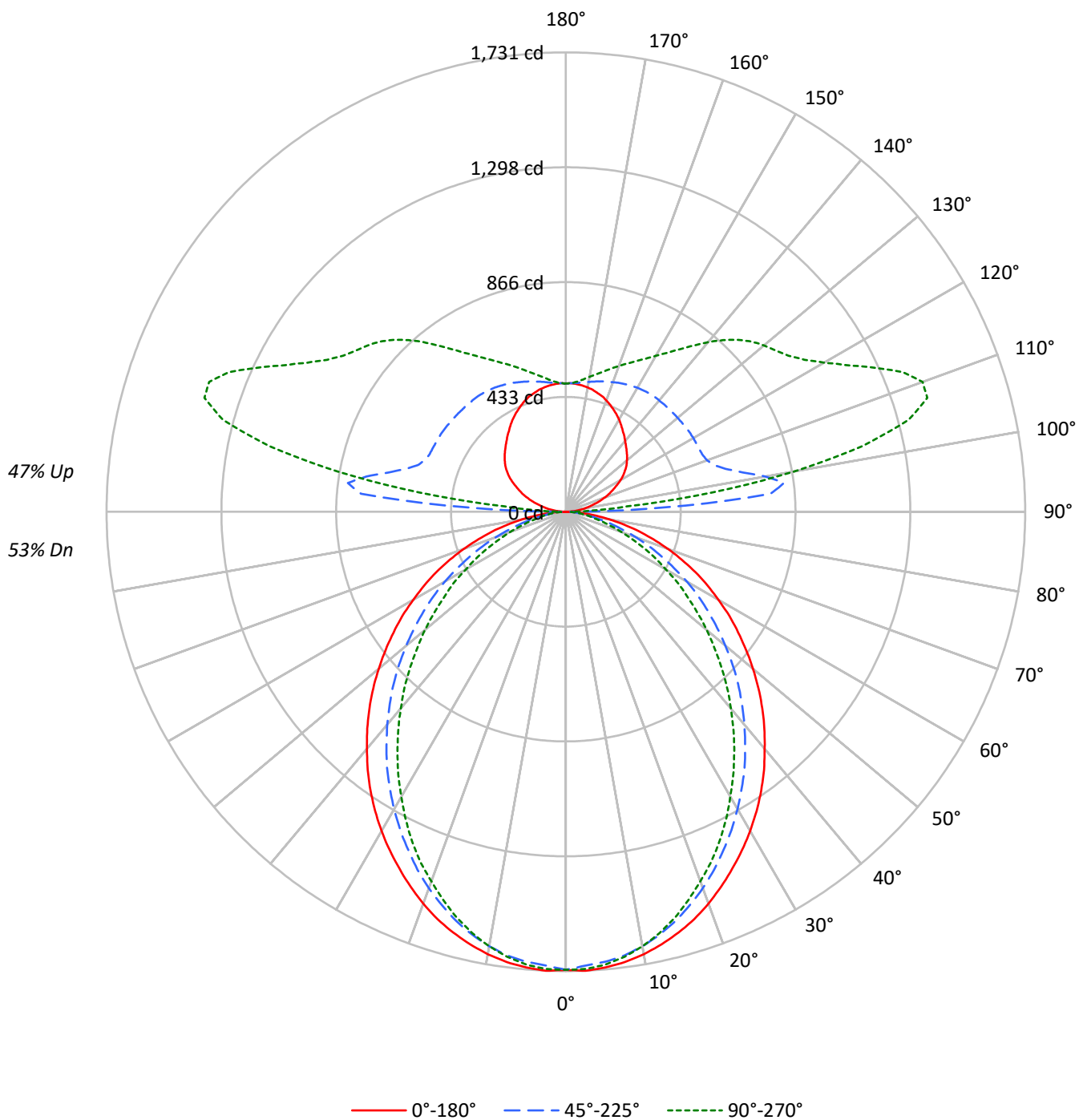
Lumens per Lamp: N/A
Luminaire Lumens: 7520.0 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 75.3
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59
1	99	95	91	87	91	88	84	82	75	73	70	63	62	60	53	51	50
2	90	83	77	72	83	77	72	67	66	62	59	56	53	51	47	45	43
3	82	73	66	60	76	68	62	57	59	54	50	50	46	43	42	39	37
4	76	65	57	51	70	60	54	48	52	47	43	44	40	37	37	34	32
5	69	58	50	44	64	54	47	42	47	41	37	40	36	32	34	30	28
6	64	52	44	38	59	49	41	36	42	37	32	36	32	28	31	27	25
7	59	47	39	34	55	44	37	32	38	33	29	33	29	25	28	25	22
8	55	43	35	30	51	40	33	28	35	29	26	30	26	23	26	22	20
9	51	39	32	27	48	37	30	25	32	27	23	28	24	20	24	20	18
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	22	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14075	14075	14075
5°	14076	13656	13657
10°	13956	13225	13068
15°	13765	12688	12372
20°	13513	12077	11579
25°	13199	11417	10804
30°	12893	10744	9934
35°	12554	10062	9084
40°	12153	9327	8210
45°	11776	8598	7345
50°	11347	7802	6466
55°	10884	6986	5560
60°	10370	6120	4664
65°	9875	5126	3802
70°	9169	4080	2905
75°	8265	2969	2032
80°	6901	1823	1461
85°	5196	1051	803

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11776 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.3	2.2
10°-20°	452.5	6.0
20°-30°	653.3	8.7
30°-40°	740.4	9.8
40°-50°	714.9	9.5
50°-60°	594.3	7.9
60°-70°	410.2	5.5
70°-80°	207.3	2.8
80°-90°	54.5	0.7
90°-100°	359.3	4.8
100°-110°	730.8	9.7
110°-120°	651.4	8.7
120°-130°	547.2	7.3
130°-140°	456.6	6.1
140°-150°	348.7	4.6
150°-160°	245.1	3.3
160°-170°	144.2	1.9
170°-180°	46.9	0.6
0°-30°	1268.1	16.9
0°-40°	2008.6	26.7
0°-60°	3317.8	44.1
0°-90°	3989.9	53.1
90°-120°	1741.5	23.2
90°-150°	3094.0	41.1
90°-180°	3530.0	46.9
0°-180°	7520.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1726	1726	1726	1726	1726	
5°	1723	1718	1702	1715	1713	164
15°	1641	1630	1596	1594	1584	463
25°	1484	1460	1406	1384	1370	684
35°	1283	1241	1175	1130	1106	802
45°	1047	998	918	854	830	807
55°	793	740	654	585	560	709
65°	539	482	398	341	325	532
75°	287	238	176	145	137	302
85°	71	45	41	38	38	78
90°	1	8	17	19	20	6
95°	31	99	774	384	232	34
105°	111	161	623	1342	1337	118
115°	196	246	556	1068	1284	194
125°	273	324	553	909	1024	243
135°	324	386	548	807	916	250
145°	374	428	546	680	748	234
155°	425	459	530	601	626	196
165°	463	477	508	538	546	131
175°	483	484	488	494	492	46
180°	484	484	484	484	484	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1726.0	1726.0	1726.0	1726.0	1726.0
2.5°	1731.2	1726.0	1711.4	1726.0	1724.6
5°	1723.3	1718.0	1702.2	1715.4	1712.7
7.5°	1711.4	1706.1	1686.3	1695.6	1691.6
10°	1692.9	1686.3	1662.5	1667.8	1662.5
12.5°	1669.1	1661.2	1632.1	1634.8	1626.8
15°	1641.4	1629.5	1596.4	1593.8	1584.5
17.5°	1609.7	1592.5	1554.2	1547.5	1534.3
20°	1571.3	1554.2	1509.2	1498.6	1481.5
22.5°	1529.0	1509.2	1460.3	1443.1	1429.9
25°	1484.1	1460.3	1406.1	1383.7	1370.5
27.5°	1437.9	1408.8	1352.0	1325.5	1307.0
30°	1389.0	1355.9	1293.8	1260.8	1239.6
32.5°	1337.4	1299.1	1234.3	1194.7	1174.9
35°	1283.2	1240.9	1174.9	1129.9	1106.1
37.5°	1226.4	1182.8	1110.1	1061.2	1037.4
40°	1165.6	1122.0	1046.7	991.2	967.4
42.5°	1107.5	1061.2	981.9	925.1	900.0
45°	1046.7	997.8	918.5	853.7	829.9
47.5°	984.6	934.3	852.4	785.0	758.6
50°	921.1	869.6	785.0	718.9	693.8
52.5°	856.4	806.2	718.9	651.5	625.1
55°	792.9	740.1	654.2	585.4	560.3
57.5°	730.8	675.3	590.7	520.7	502.2
60°	663.4	610.6	526.0	457.3	436.1
62.5°	602.6	547.1	459.9	397.8	381.9
65°	539.2	482.4	397.8	341.0	325.1
67.5°	473.1	418.9	339.6	289.4	270.9
70°	411.0	355.5	280.2	236.6	223.3
72.5°	344.9	296.0	226.0	190.3	178.4
75°	286.8	237.9	175.8	145.4	137.4
77.5°	226.0	183.7	130.8	109.7	107.0
80°	167.8	129.5	89.9	85.9	84.6
82.5°	117.6	83.3	64.8	62.1	60.8
85°	71.4	44.9	41.0	38.3	38.3
87.5°	30.4	19.8	18.5	17.2	18.5
90°	1.0	7.6	17.1	19.0	20.0
92.5°	13.3	73.2	372.5	123.0	86.5
95°	31.4	98.8	774.5	383.5	231.9
97.5°	52.3	109.3	828.7	783.1	556.9
100°	72.2	123.6	764.1	1083.4	871.5
102.5°	91.2	140.6	683.3	1271.6	1145.2
105°	111.2	161.1	623.4	1342.4	1337.1
107.5°	133.0	182.0	584.5	1321.0	1428.4
110°	154.9	202.9	566.4	1245.0	1430.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	175.8	223.8	557.9	1151.8	1374.2
115°	195.8	245.6	556.0	1068.2	1283.9
117.5°	216.7	266.1	555.0	1002.6	1195.5
120°	237.6	286.0	555.0	958.4	1123.3
122.5°	256.6	305.5	554.1	929.4	1066.3
125°	272.7	324.1	553.1	909.0	1024.5
127.5°	288.0	341.2	551.2	889.5	997.9
130°	300.3	357.8	550.2	866.2	975.1
132.5°	312.7	372.0	549.3	838.7	949.4
135°	324.1	385.8	548.3	806.8	916.1
137.5°	335.5	397.7	548.3	772.6	877.2
140°	347.8	408.6	547.4	739.3	834.4
142.5°	361.1	418.6	547.4	708.5	788.8
145°	373.5	427.6	545.5	680.4	747.9
147.5°	387.7	436.2	542.6	657.2	709.9
150°	401.0	444.3	539.8	635.8	678.5
152.5°	413.4	451.9	535.0	617.8	650.0
155°	424.8	458.6	530.3	600.6	626.3
157.5°	436.2	464.7	525.5	584.4	604.4
160°	446.7	470.0	519.8	568.3	584.5
162.5°	456.2	474.2	514.1	552.6	565.5
165°	462.8	477.0	508.4	538.4	546.4
167.5°	470.4	479.4	502.7	526.0	531.2
170°	475.2	481.4	497.0	513.7	517.0
172.5°	479.9	482.8	491.3	502.8	502.7
175°	482.8	483.7	487.5	494.2	492.3
177.5°	484.7	483.7	484.7	488.0	484.7
180°	483.7	483.7	483.7	483.7	483.7

(END OF REPORT)