

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: P1034063

Luminaire Tested: S124RDIW-B350D1560UB27-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034063
REPORT IS A COMBINATION OF REPORTS P1000351 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIW-B350D1560UB27-4F0-XX-W2A-F1
Description: Define 4 Regressed Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

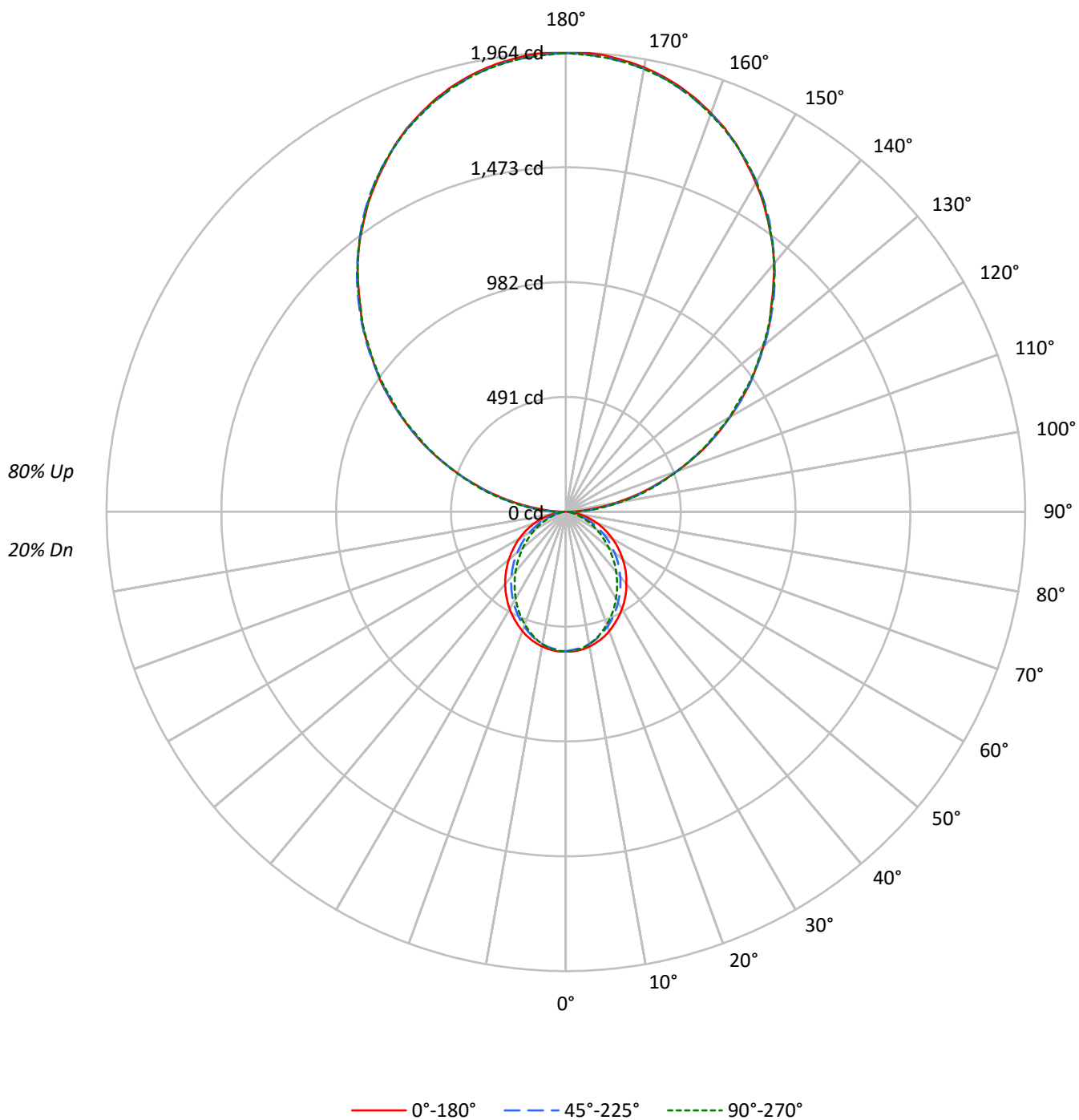
Lumens per Lamp: N/A
Luminaire Lumens: 6824.0 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 65.2
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	100	100	100	100	88	88	88	88	67	67	67	47	47	47	29	29	29
1	91	87	83	80	81	77	74	71	58	57	55	41	40	39	26	25	24
2	83	76	70	66	73	68	63	59	51	48	45	36	34	33	23	22	21
3	76	67	60	55	67	59	54	49	45	41	38	32	30	28	20	19	18
4	69	59	52	46	61	53	46	41	40	36	32	29	26	24	18	17	15
5	63	53	45	39	56	47	40	35	36	31	28	26	23	21	16	15	13
6	58	47	39	34	51	42	35	31	32	28	24	23	20	18	15	13	12
7	54	42	35	29	47	38	31	27	29	24	21	21	18	16	13	12	10
8	50	38	31	26	44	34	28	23	26	22	19	19	16	14	12	11	9
9	46	35	28	23	41	31	25	21	24	20	17	18	15	12	11	10	8
10	43	32	25	20	38	28	22	18	22	18	15	16	13	11	10	9	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4863	4863	4863
5°	4864	4719	4719
10°	4823	4570	4516
15°	4757	4384	4275
20°	4670	4173	4001
25°	4561	3945	3733
30°	4454	3713	3432
35°	4338	3477	3139
40°	4200	3223	2837
45°	4069	2971	2538
50°	3921	2695	2234
55°	3761	2414	1921
60°	3583	2114	1612
65°	3412	1772	1313
70°	3168	1410	1004
75°	2856	1025	702
80°	2385	631	504
85°	1797	364	277

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4069 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	0.8
10°-20°	156.4	2.3
20°-30°	225.7	3.3
30°-40°	255.9	3.7
40°-50°	247.0	3.6
50°-60°	205.4	3.0
60°-70°	141.8	2.1
70°-80°	71.6	1.0
80°-90°	22.4	0.3
90°-100°	127.8	1.9
100°-110°	382.9	5.6
110°-120°	650.5	9.5
120°-130°	857.9	12.6
130°-140°	963.6	14.1
140°-150°	947.0	13.9
150°-160°	796.5	11.7
160°-170°	530.0	7.8
170°-180°	185.6	2.7
0°-30°	438.2	6.4
0°-40°	694.0	10.2
0°-60°	1146.4	16.8
0°-90°	1382.2	20.3
90°-120°	1161.2	17.0
90°-150°	3929.7	57.6
90°-180°	5442.0	79.7
0°-180°	6824.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	596	596	596	596	596	
5°	596	594	588	593	592	57
15°	567	563	552	551	548	160
25°	513	505	486	478	474	236
35°	443	429	406	390	382	277
45°	362	345	317	295	287	279
55°	274	256	226	202	194	245
65°	186	167	138	118	112	184
75°	99	82	61	50	48	105
85°	25	16	14	13	13	27
90°	5	21	33	42	46	8
95°	91	105	115	120	120	99
105°	353	355	361	366	370	375
115°	661	661	658	657	655	652
125°	963	963	962	959	956	859
135°	1242	1251	1251	1248	1244	961
145°	1509	1515	1517	1515	1511	945
155°	1729	1729	1728	1734	1728	796
165°	1882	1878	1875	1884	1878	531
175°	1958	1951	1949	1960	1949	186
180°	1961	1961	1961	1961	1961	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	596.4	596.4	596.4	596.4	596.4
2.5°	598.2	596.4	591.4	596.4	595.9
5°	595.5	593.6	588.2	592.7	591.8
7.5°	591.4	589.5	582.7	585.9	584.5
10°	585.0	582.7	574.5	576.3	574.5
12.5°	576.7	574.0	564.0	564.9	562.1
15°	567.2	563.0	551.6	550.7	547.5
17.5°	556.2	550.3	537.0	534.7	530.2
20°	543.0	537.0	521.5	517.8	511.9
22.5°	528.3	521.5	504.6	498.7	494.1
25°	512.8	504.6	485.9	478.1	473.5
27.5°	496.8	486.8	467.1	458.0	451.6
30°	479.9	468.5	447.1	435.6	428.3
32.5°	462.1	448.9	426.5	412.8	406.0
35°	443.4	428.8	406.0	390.4	382.2
37.5°	423.8	408.7	383.6	366.7	358.5
40°	402.8	387.7	361.7	342.5	334.3
42.5°	382.7	366.7	339.3	319.7	311.0
45°	361.7	344.8	317.4	295.0	286.8
47.5°	340.2	322.8	294.5	271.2	262.1
50°	318.3	300.5	271.2	248.4	239.7
52.5°	295.9	278.6	248.4	225.1	216.0
55°	274.0	255.7	226.0	202.3	193.6
57.5°	252.5	233.3	204.1	179.9	173.5
60°	229.2	211.0	181.7	158.0	150.7
62.5°	208.2	189.1	158.9	137.5	132.0
65°	186.3	166.7	137.5	117.8	112.3
67.5°	163.5	144.8	117.4	100.0	93.6
70°	142.0	122.8	96.8	81.7	77.2
72.5°	119.2	102.3	78.1	65.8	61.6
75°	99.1	82.2	60.7	50.2	47.5
77.5°	78.1	63.5	45.2	37.9	37.0
80°	58.0	44.8	31.1	29.7	29.2
82.5°	40.6	28.8	22.4	21.5	21.0
85°	24.7	15.5	14.2	13.2	13.2
87.5°	10.5	6.8	6.4	5.9	6.4
90°	4.6	21.2	33.4	42.5	45.5
92.5°	39.4	59.2	66.7	71.3	72.8
95°	91.0	104.7	115.3	119.8	119.8
97.5°	145.6	157.8	169.9	176.0	176.0
100°	212.4	218.4	232.1	235.1	235.1
102.5°	282.1	283.6	295.8	300.3	301.9
105°	353.4	354.9	361.0	365.6	370.1
107.5°	427.7	429.3	430.8	436.8	435.3
110°	503.6	506.6	505.1	502.1	506.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	582.5	582.5	579.4	579.4	579.4
115°	661.3	661.3	658.3	656.8	655.3
117.5°	735.7	735.7	734.1	729.6	725.0
120°	810.0	816.1	811.5	803.9	807.0
122.5°	887.4	888.9	887.4	882.8	875.2
125°	963.2	963.2	961.7	958.6	955.6
127.5°	1031.4	1036.0	1033.0	1029.9	1028.4
130°	1104.3	1108.8	1108.8	1105.8	1099.7
132.5°	1178.6	1181.6	1180.1	1177.1	1175.5
135°	1242.3	1251.4	1251.4	1248.4	1243.8
137.5°	1313.6	1318.1	1321.2	1316.6	1318.1
140°	1384.9	1387.9	1387.9	1386.4	1384.9
142.5°	1450.1	1453.1	1451.6	1451.6	1451.6
145°	1509.3	1515.3	1516.8	1515.3	1510.8
147.5°	1569.9	1577.5	1576.0	1574.5	1573.0
150°	1624.5	1630.6	1630.6	1630.6	1629.1
152.5°	1676.1	1679.1	1680.7	1685.2	1680.7
155°	1729.2	1729.2	1727.7	1733.7	1727.7
157.5°	1774.7	1771.7	1771.7	1776.2	1771.7
160°	1814.1	1812.6	1811.1	1815.7	1808.1
162.5°	1850.5	1846.0	1844.5	1853.6	1846.0
165°	1882.4	1877.8	1874.8	1883.9	1877.8
167.5°	1908.2	1902.1	1902.1	1911.2	1902.1
170°	1929.4	1921.8	1923.4	1932.5	1921.8
172.5°	1944.6	1938.5	1938.5	1949.1	1938.5
175°	1958.2	1950.7	1949.1	1959.8	1949.1
177.5°	1964.3	1956.7	1956.7	1967.3	1955.2
180°	1961.3	1961.3	1961.3	1961.3	1961.3

(END OF REPORT)