

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: P1034051

Luminaire Tested: S124RDIW-B350D1340UB35-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034051
REPORT IS A COMBINATION OF REPORTS P1000333 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIW-B350D1340UB35-4F0-XX-W2A-F1
Description: Define 4 Regressed Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

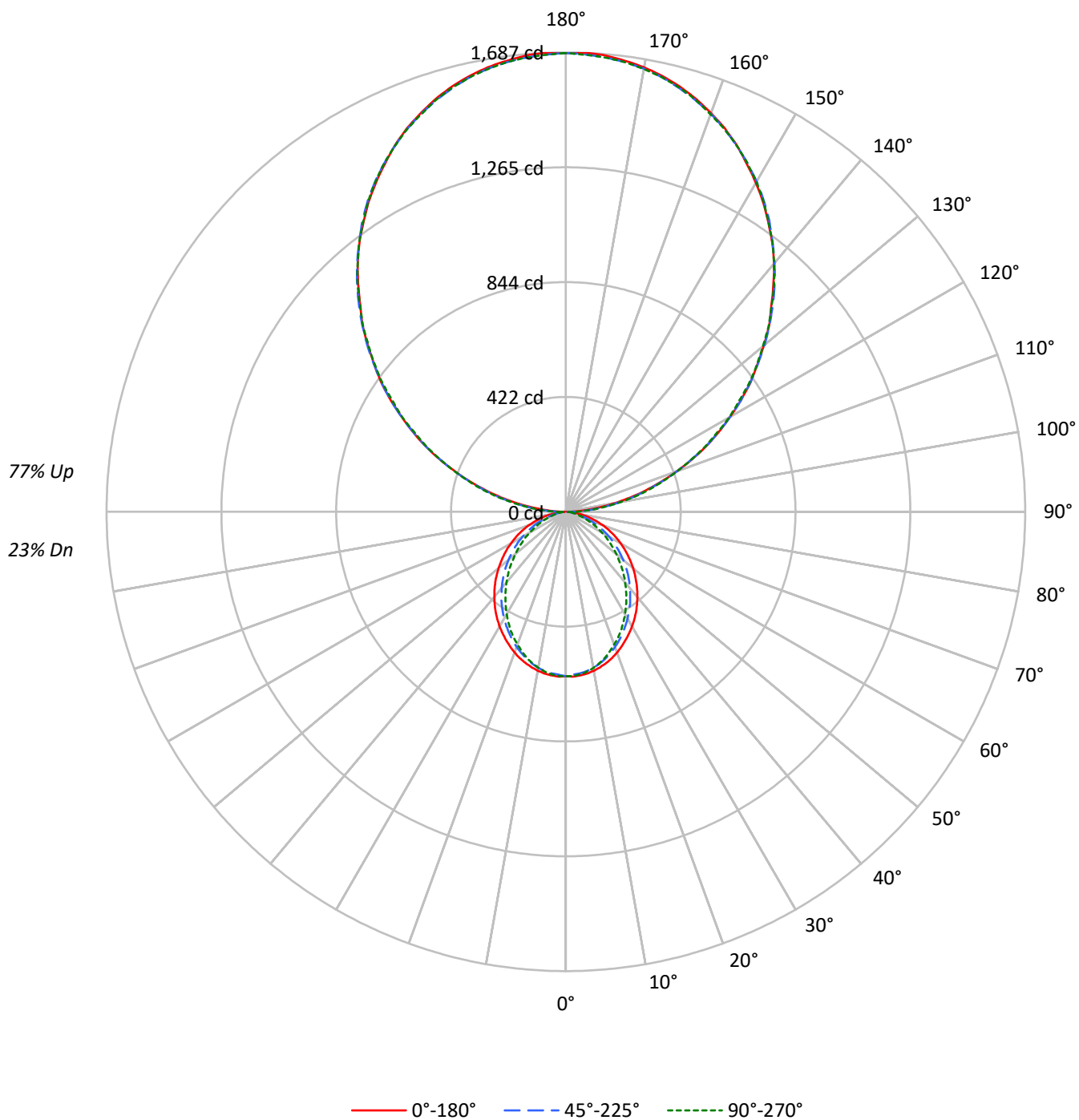
Lumens per Lamp: N/A
Luminaire Lumens: 6074.0 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 55.1
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31	31	31	23
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	27	27	20
2	84	77	71	66	74	68	64	59	53	49	47	38	36	34	25	24	23	23	23	17
3	76	67	61	55	68	60	54	50	46	42	39	34	31	29	22	21	19	19	19	14
4	70	60	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17	17	17	12
5	64	53	45	40	57	47	41	36	37	32	29	27	24	22	18	16	15	15	15	11
6	59	47	40	34	52	42	36	31	33	28	25	24	21	19	16	14	13	13	13	9
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	11	11	11	8
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	13	12	10	10	10	8
9	47	35	28	23	41	32	25	21	25	20	17	18	15	13	12	11	9	9	9	7
10	43	32	25	21	39	29	23	19	23	18	15	17	14	12	11	10	8	8	8	6

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	0.9
10°-20°	158.4	2.6
20°-30°	228.7	3.8
30°-40°	259.2	4.3
40°-50°	250.3	4.1
50°-60°	208.1	3.4
60°-70°	143.6	2.4
70°-80°	72.6	1.2
80°-90°	22.0	0.4
90°-100°	109.8	1.8
100°-110°	328.9	5.4
110°-120°	558.8	9.2
120°-130°	736.9	12.1
130°-140°	827.7	13.6
140°-150°	813.5	13.4
150°-160°	684.2	11.3
160°-170°	455.2	7.5
170°-180°	159.4	2.6
0°-30°	443.9	7.3
0°-40°	703.1	11.6
0°-60°	1161.4	19.1
0°-90°	1399.6	23.0
90°-120°	997.5	16.4
90°-150°	3375.5	55.6
90°-180°	4674.0	77.0
0°-180°	6074.0	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°	4	18	29	36	39	7
95°	78	90	99	103	103	85
105°	304	305	310	314	318	322
115°	568	568	566	564	563	560
125°	827	827	826	824	821	738
135°	1067	1075	1075	1072	1068	826
145°	1296	1302	1303	1302	1298	811
155°	1485	1485	1484	1489	1484	684
165°	1617	1613	1610	1618	1613	456
175°	1682	1676	1674	1683	1674	160
180°	1685	1685	1685	1685	1685	

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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°	3.9	18.2	28.7	36.5	39.1
92.5°	33.9	50.8	57.3	61.2	62.5
95°	78.2	89.9	99.0	102.9	102.9
97.5°	125.1	135.5	145.9	151.1	151.1
100°	182.4	187.6	199.3	202.0	202.0
102.5°	242.3	243.6	254.1	258.0	259.3
105°	303.6	304.9	310.1	314.0	317.9
107.5°	367.4	368.7	370.0	375.2	373.9
110°	432.6	435.2	433.9	431.3	435.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	500.3	500.3	497.7	497.7	497.7
115°	568.1	568.1	565.5	564.2	562.9
117.5°	631.9	631.9	630.6	626.7	622.8
120°	695.8	701.0	697.1	690.6	693.2
122.5°	762.2	763.5	762.2	758.3	751.8
125°	827.4	827.4	826.1	823.5	820.8
127.5°	886.0	889.9	887.3	884.7	883.4
130°	948.5	952.4	952.4	949.8	944.6
132.5°	1012.4	1015.0	1013.7	1011.1	1009.8
135°	1067.1	1074.9	1074.9	1072.3	1068.4
137.5°	1128.3	1132.2	1134.9	1130.9	1132.2
140°	1189.6	1192.2	1192.2	1190.9	1189.6
142.5°	1245.6	1248.2	1246.9	1246.9	1246.9
145°	1296.4	1301.6	1302.9	1301.6	1297.7
147.5°	1348.5	1355.0	1353.7	1352.4	1351.1
150°	1395.4	1400.7	1400.7	1400.7	1399.3
152.5°	1439.7	1442.3	1443.6	1447.6	1443.6
155°	1485.3	1485.3	1484.0	1489.3	1484.0
157.5°	1524.4	1521.8	1521.8	1525.7	1521.8
160°	1558.3	1557.0	1555.7	1559.6	1553.1
162.5°	1589.6	1585.7	1584.4	1592.2	1585.7
165°	1616.9	1613.0	1610.4	1618.2	1613.0
167.5°	1639.1	1633.9	1633.9	1641.7	1633.9
170°	1657.3	1650.8	1652.1	1659.9	1650.8
172.5°	1670.4	1665.1	1665.1	1674.3	1665.1
175°	1682.1	1675.6	1674.3	1683.4	1674.3
177.5°	1687.3	1680.8	1680.8	1689.9	1679.5
180°	1684.7	1684.7	1684.7	1684.7	1684.7

(END OF REPORT)