

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: P1034141

Luminaire Tested: S124RDIW-B575D1340UB27-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034141
REPORT IS A COMBINATION OF REPORTS P1000527 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIW-B575D1340UB27-4F0-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

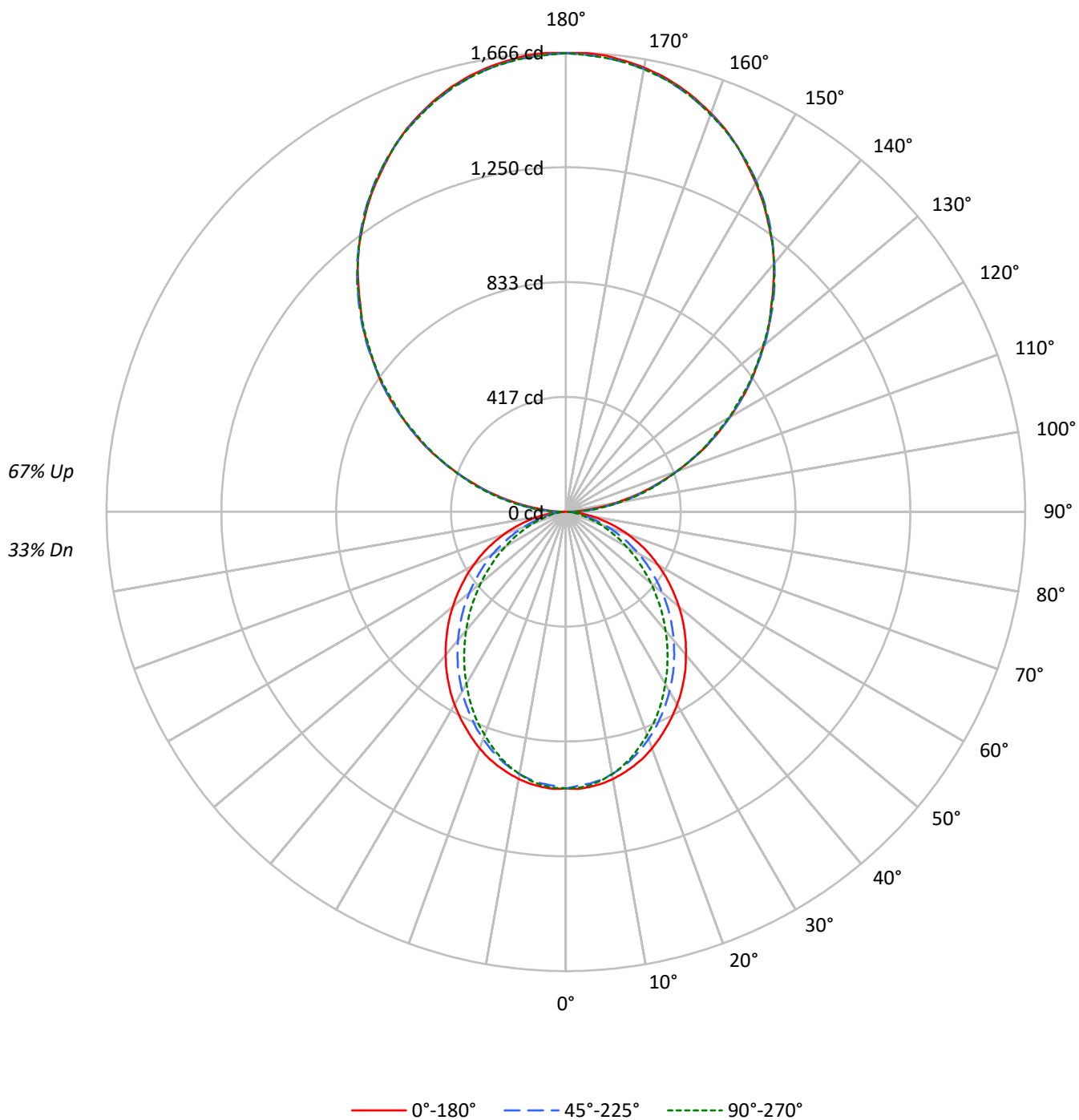
Lumens per Lamp: N/A
Luminaire Lumens: 6936.0 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 66.1
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				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33			
1	94	90	86	83	85	81	78	75	65	63	61	50	49	48	36	36	35	29			
2	86	79	73	68	77	71	66	62	57	54	51	44	42	40	32	31	30	24			
3	78	69	62	57	71	63	57	52	51	46	43	39	36	34	29	27	25	21			
4	72	61	54	48	65	56	49	44	45	40	37	35	32	29	26	24	22	18			
5	66	55	47	41	59	50	43	38	40	35	32	31	28	25	23	21	19	16			
6	61	49	41	36	55	45	38	33	36	31	27	28	25	22	21	19	17	14			
7	56	44	37	31	50	40	34	29	33	28	24	26	22	20	19	17	15	12			
8	52	40	33	27	47	37	30	25	30	25	21	24	20	17	18	15	14	11			
9	48	36	29	24	44	33	27	23	27	23	19	22	18	16	16	14	12	10			
10	45	33	26	22	41	31	24	20	25	20	17	20	17	14	15	13	11	9			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8181	8181	8181
5°	8182	7938	7938
10°	8112	7687	7595
15°	8000	7375	7191
20°	7854	7020	6730
25°	7672	6636	6280
30°	7493	6245	5774
35°	7298	5848	5280
40°	7064	5421	4772
45°	6845	4998	4269
50°	6596	4535	3759
55°	6327	4060	3232
60°	6028	3557	2711
65°	5739	2979	2210
70°	5330	2371	1689
75°	4804	1726	1181
80°	4014	1059	850
85°	3020	610	467

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6845 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	1.4
10°-20°	263.0	3.8
20°-30°	379.7	5.5
30°-40°	430.4	6.2
40°-50°	415.5	6.0
50°-60°	345.5	5.0
60°-70°	238.4	3.4
70°-80°	120.5	1.7
80°-90°	34.2	0.5
90°-100°	108.4	1.6
100°-110°	324.7	4.7
110°-120°	551.6	8.0
120°-130°	727.5	10.5
130°-140°	817.1	11.8
140°-150°	803.1	11.6
150°-160°	675.4	9.7
160°-170°	449.4	6.5
170°-180°	157.4	2.3
0°-30°	737.1	10.6
0°-40°	1167.5	16.8
0°-60°	1928.5	27.8
0°-90°	2321.6	33.5
90°-120°	984.7	14.2
90°-150°	3332.3	48.0
90°-180°	4614.0	66.5
0°-180°	6936.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1003	1003	1003	1003	1003	
5°	1002	999	989	997	996	95
15°	954	947	928	926	921	269
25°	863	849	817	804	797	397
35°	746	721	683	657	643	466
45°	608	580	534	496	482	469
55°	461	430	380	340	326	412
65°	313	280	231	198	189	309
75°	167	138	102	84	80	176
85°	42	26	24	22	22	46
90°	4	18	28	36	39	8
95°	77	89	98	102	102	84
105°	300	301	306	310	314	318
115°	561	561	558	557	556	553
125°	817	817	816	813	810	728
135°	1053	1061	1061	1059	1055	815
145°	1280	1285	1286	1285	1281	801
155°	1466	1466	1465	1470	1465	675
165°	1596	1592	1590	1598	1592	450
175°	1660	1654	1653	1662	1653	158
180°	1663	1663	1663	1663	1663	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1003.2	1003.2	1003.2	1003.2	1003.2
2.5°	1006.3	1003.2	994.8	1003.2	1002.4
5°	1001.7	998.6	989.4	997.1	995.5
7.5°	994.8	991.7	980.2	985.5	983.2
10°	984.0	980.2	966.3	969.4	966.3
12.5°	970.2	965.6	948.7	950.2	945.6
15°	954.0	947.1	927.9	926.4	921.0
17.5°	935.6	925.6	903.3	899.5	891.8
20°	913.3	903.3	877.2	871.1	861.1
22.5°	888.7	877.2	848.8	838.8	831.1
25°	862.6	848.8	817.3	804.2	796.6
27.5°	835.7	818.8	785.8	770.5	759.7
30°	807.3	788.1	752.0	732.8	720.5
32.5°	777.4	755.1	717.4	694.4	682.9
35°	745.9	721.3	682.9	656.8	642.9
37.5°	712.8	687.5	645.2	616.8	603.0
40°	677.5	652.2	608.4	576.1	562.3
42.5°	643.7	616.8	570.7	537.7	523.1
45°	608.4	580.0	533.9	496.2	482.4
47.5°	572.3	543.1	495.5	456.3	440.9
50°	535.4	505.4	456.3	417.9	403.3
52.5°	497.8	468.6	417.9	378.7	363.3
55°	460.9	430.2	380.2	340.3	325.7
57.5°	424.8	392.5	343.4	302.6	291.9
60°	385.6	354.9	305.7	265.8	253.5
62.5°	350.3	318.0	267.3	231.2	222.0
65°	313.4	280.4	231.2	198.2	189.0
67.5°	275.0	243.5	197.4	168.2	157.5
70°	238.9	206.6	162.8	137.5	129.8
72.5°	200.5	172.1	131.4	110.6	103.7
75°	166.7	138.3	102.2	84.5	79.9
77.5°	131.4	106.8	76.0	63.8	62.2
80°	97.6	75.3	52.2	49.9	49.2
82.5°	68.4	48.4	37.6	36.1	35.3
85°	41.5	26.1	23.8	22.3	22.3
87.5°	17.7	11.5	10.8	10.0	10.8
90°	3.9	18.0	28.3	36.0	38.6
92.5°	33.4	50.2	56.6	60.5	61.7
95°	77.2	88.7	97.8	101.6	101.6
97.5°	123.5	133.8	144.1	149.2	149.2
100°	180.1	185.2	196.8	199.4	199.4
102.5°	239.2	240.5	250.8	254.7	256.0
105°	299.7	301.0	306.1	310.0	313.8
107.5°	362.7	364.0	365.3	370.4	369.1
110°	427.0	429.6	428.3	425.7	429.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	493.9	493.9	491.3	491.3	491.3
115°	560.8	560.8	558.2	556.9	555.6
117.5°	623.8	623.8	622.5	618.7	614.8
120°	686.8	692.0	688.1	681.7	684.3
122.5°	752.4	753.7	752.4	748.6	742.1
125°	816.8	816.8	815.5	812.9	810.3
127.5°	874.6	878.5	875.9	873.3	872.1
130°	936.4	940.2	940.2	937.7	932.5
132.5°	999.4	1002.0	1000.7	998.1	996.8
135°	1053.4	1061.1	1061.1	1058.6	1054.7
137.5°	1113.9	1117.7	1120.3	1116.4	1117.7
140°	1174.3	1176.9	1176.9	1175.6	1174.3
142.5°	1229.6	1232.2	1230.9	1230.9	1230.9
145°	1279.8	1284.9	1286.2	1284.9	1281.1
147.5°	1331.2	1337.7	1336.4	1335.1	1333.8
150°	1377.5	1382.7	1382.7	1382.7	1381.4
152.5°	1421.3	1423.8	1425.1	1429.0	1425.1
155°	1466.3	1466.3	1465.0	1470.2	1465.0
157.5°	1504.9	1502.3	1502.3	1506.2	1502.3
160°	1538.3	1537.0	1535.7	1539.6	1533.2
162.5°	1569.2	1565.3	1564.0	1571.8	1565.3
165°	1596.2	1592.3	1589.8	1597.5	1592.3
167.5°	1618.1	1612.9	1612.9	1620.6	1612.9
170°	1636.1	1629.6	1630.9	1638.6	1629.6
172.5°	1648.9	1643.8	1643.8	1652.8	1643.8
175°	1660.5	1654.1	1652.8	1661.8	1652.8
177.5°	1665.7	1659.2	1659.2	1668.2	1657.9
180°	1663.1	1663.1	1663.1	1663.1	1663.1

(END OF REPORT)