

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: P1034989

Luminaire Tested: S125DIW-B1090D1340UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034989
REPORT IS A COMBINATION OF REPORTS P1002839 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1090D1340UB40-4F0-XX-W2A-F
Description: Define 5 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

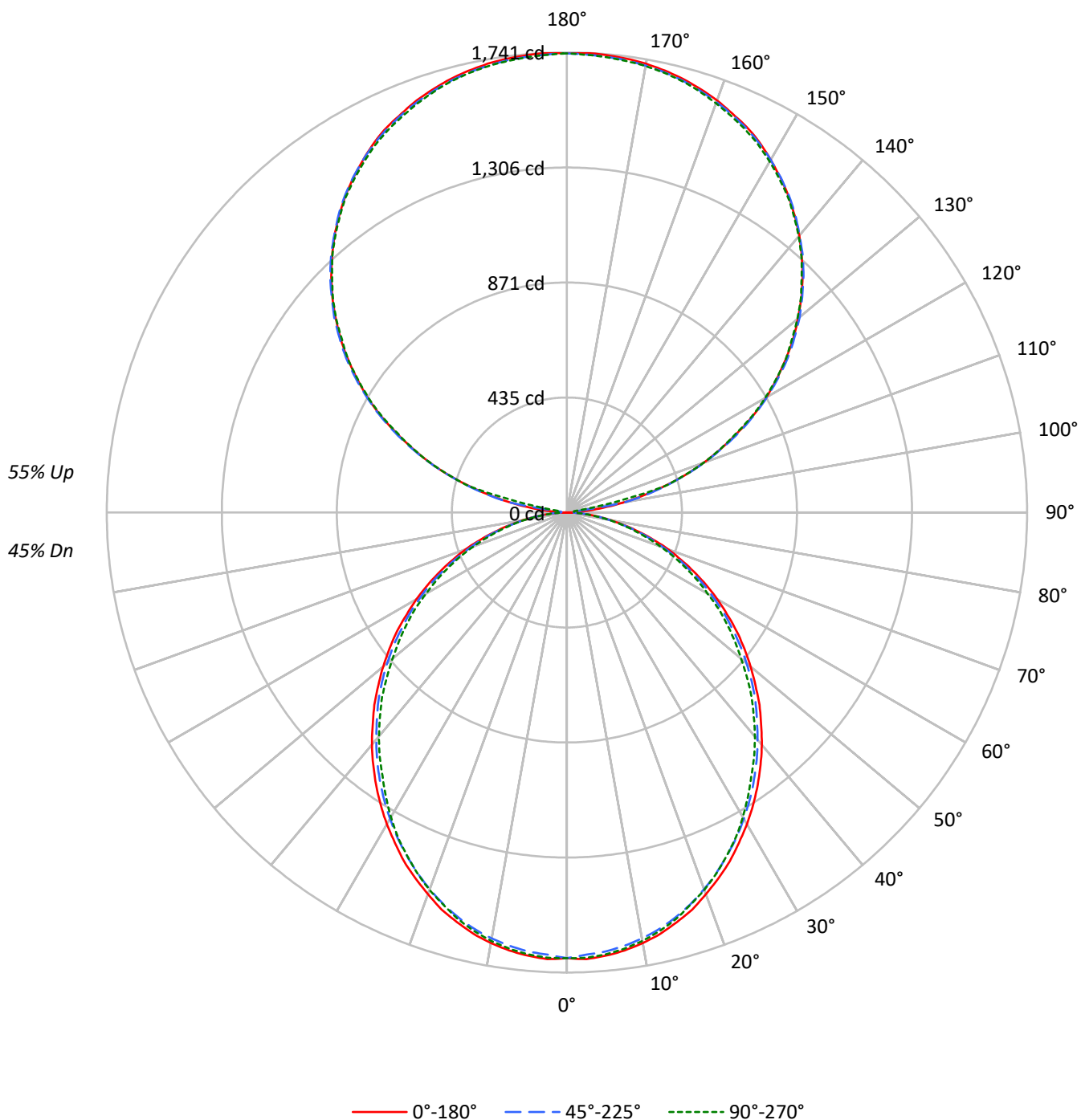
Lumens per Lamp: N/A
Luminaire Lumens: 9730.0 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 88.9
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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52
1	97	92	88	85	88	85	81	78	71	68	66	58	56	54	46	44	44
2	88	81	74	69	80	74	69	64	62	58	55	51	48	45	40	38	37
3	80	71	63	58	73	65	59	54	54	50	46	45	41	38	35	33	31
4	73	63	55	49	67	58	51	45	48	43	39	40	36	33	32	29	27
5	67	56	48	42	61	51	44	39	43	38	34	36	32	28	29	26	23
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	21
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	21	18
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16
9	49	37	30	25	45	35	28	23	29	24	20	25	20	18	20	17	15
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	19	16	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10807	10807	10807
5°	10807	10556	10576
10°	10717	10314	10281
15°	10577	10024	9935
20°	10387	9689	9537
25°	10183	9322	9111
30°	9936	8941	8662
35°	9673	8542	8159
40°	9401	8119	7711
45°	9107	7707	7237
50°	8783	7240	6683
55°	8462	6724	6174
60°	8081	6181	5582
65°	7623	5553	4969
70°	7157	4830	4262
75°	6376	3977	3446
80°	5432	2971	2535
85°	4197	1756	1397

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9107 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	1.6
10°-20°	449.6	4.6
20°-30°	663.7	6.8
30°-40°	774.4	8.0
40°-50°	777.7	8.0
50°-60°	682.7	7.0
60°-70°	508.5	5.2
70°-80°	290.4	3.0
80°-90°	86.4	0.9
90°-100°	59.0	0.6
100°-110°	392.1	4.0
110°-120°	706.2	7.3
120°-130°	906.4	9.3
130°-140°	974.9	10.0
140°-150°	915.0	9.4
150°-160°	740.1	7.6
160°-170°	478.7	4.9
170°-180°	165.1	1.7
0°-30°	1272.4	13.1
0°-40°	2046.8	21.0
0°-60°	3507.2	36.0
0°-90°	4392.6	45.1
90°-120°	1157.3	11.9
90°-150°	3953.6	40.6
90°-180°	5337.0	54.9
0°-180°	9730.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1687	1687	1687	1687	1687	
5°	1684	1681	1668	1680	1679	160
15°	1605	1601	1587	1593	1593	453
25°	1457	1450	1433	1436	1432	670
35°	1258	1253	1234	1228	1217	787
45°	1030	1025	1009	993	989	794
55°	785	781	762	750	741	700
65°	530	527	512	500	495	525
75°	282	279	272	268	263	300
85°	73	75	75	73	71	80
90°	1	12	21	27	31	9
95°	73	70	21	27	27	90
105°	379	384	384	384	382	401
115°	711	717	719	714	706	705
125°	1011	1020	1020	1015	1011	903
135°	1261	1269	1266	1264	1256	972
145°	1462	1464	1464	1466	1458	914
155°	1610	1602	1605	1609	1598	742
165°	1699	1691	1692	1700	1690	480
175°	1738	1730	1731	1741	1730	165
180°	1738	1738	1738	1738	1738	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1686.7	1686.7	1686.7	1686.7	1686.7
2.5°	1692.0	1688.0	1674.7	1688.0	1686.7
5°	1684.0	1681.3	1668.0	1680.0	1678.7
7.5°	1672.0	1669.3	1654.6	1666.7	1665.3
10°	1654.6	1652.0	1637.3	1648.0	1646.6
12.5°	1633.3	1628.0	1614.6	1622.6	1622.6
15°	1605.3	1601.3	1586.6	1593.3	1593.3
17.5°	1575.9	1569.2	1554.6	1562.6	1555.9
20°	1537.2	1534.6	1517.2	1526.5	1519.9
22.5°	1498.5	1493.2	1477.2	1482.5	1478.5
25°	1457.2	1450.5	1433.1	1435.8	1431.8
27.5°	1409.1	1405.1	1387.8	1389.1	1385.1
30°	1362.4	1358.4	1338.4	1335.7	1331.7
32.5°	1311.7	1305.0	1287.7	1282.4	1274.3
35°	1258.3	1253.0	1234.3	1227.6	1217.0
37.5°	1203.6	1197.0	1179.6	1170.3	1163.6
40°	1147.6	1140.9	1122.2	1110.2	1106.2
42.5°	1087.5	1082.2	1063.5	1052.8	1046.2
45°	1030.2	1024.8	1008.8	992.8	988.8
47.5°	967.4	968.8	948.8	932.7	923.4
50°	907.4	903.4	887.4	870.0	860.7
52.5°	846.0	843.3	826.0	811.3	800.6
55°	784.6	780.6	761.9	749.9	740.6
57.5°	719.2	717.9	701.9	685.9	681.9
60°	657.9	652.5	637.8	624.5	615.2
62.5°	593.8	589.8	577.8	563.1	556.4
65°	529.8	527.1	512.4	500.4	495.1
67.5°	467.0	461.7	451.0	440.4	437.7
70°	408.3	401.7	389.6	381.6	376.3
72.5°	344.3	340.3	333.6	324.3	318.9
75°	281.6	278.9	272.2	268.2	262.9
77.5°	222.8	221.5	217.5	214.8	210.8
80°	168.1	168.1	165.5	164.1	161.5
82.5°	120.1	117.4	117.4	114.8	114.8
85°	73.4	74.7	74.7	73.4	70.7
87.5°	36.0	36.0	34.7	34.7	32.0
90°	1.3	11.6	20.6	27.0	30.9
92.5°	24.5	12.9	20.6	27.0	28.3
95°	73.4	69.6	20.6	27.0	27.0
97.5°	137.8	145.5	23.2	25.8	27.0
100°	215.1	219.0	224.1	32.2	27.0
102.5°	293.7	298.8	301.4	304.0	195.8
105°	378.7	383.8	383.8	383.8	382.5
107.5°	466.3	466.3	468.8	470.1	465.0
110°	551.3	551.3	553.9	550.0	551.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	631.1	635.0	636.3	631.1	628.6
115°	711.0	717.4	718.7	713.6	705.8
117.5°	794.7	794.7	799.9	792.1	789.6
120°	872.0	870.7	874.6	872.0	865.6
122.5°	940.3	946.7	948.0	945.4	937.7
125°	1011.1	1020.1	1020.1	1015.0	1011.1
127.5°	1079.4	1085.8	1084.5	1082.0	1071.6
130°	1141.2	1147.6	1148.9	1145.1	1138.6
132.5°	1203.0	1210.8	1206.9	1206.9	1200.5
135°	1261.0	1268.7	1266.1	1263.6	1255.8
137.5°	1315.1	1322.8	1320.2	1320.2	1313.8
140°	1367.9	1370.5	1369.2	1371.8	1364.0
142.5°	1415.6	1416.8	1419.4	1419.4	1411.7
145°	1461.9	1464.5	1464.5	1465.8	1458.1
147.5°	1503.1	1503.1	1504.4	1505.7	1496.7
150°	1541.8	1539.2	1541.8	1544.4	1534.1
152.5°	1579.1	1572.7	1575.3	1577.8	1568.8
155°	1610.0	1602.3	1604.9	1608.8	1598.5
157.5°	1634.5	1630.7	1630.7	1634.5	1624.2
160°	1660.3	1652.6	1653.8	1659.0	1648.7
162.5°	1680.9	1673.2	1674.4	1682.2	1670.6
165°	1698.9	1691.2	1692.5	1700.2	1689.9
167.5°	1713.1	1705.4	1706.6	1715.7	1704.1
170°	1724.7	1715.7	1717.0	1727.3	1715.7
172.5°	1732.4	1723.4	1726.0	1735.0	1723.4
175°	1737.6	1729.8	1731.1	1741.4	1729.8
177.5°	1741.4	1733.7	1735.0	1744.0	1733.7
180°	1737.6	1737.6	1737.6	1737.6	1737.6

(END OF REPORT)