

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: P1034971

Luminaire Tested: S125DIW-B1090D1340UB27-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034971
REPORT IS A COMBINATION OF REPORTS P1002788 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1090D1340UB27-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

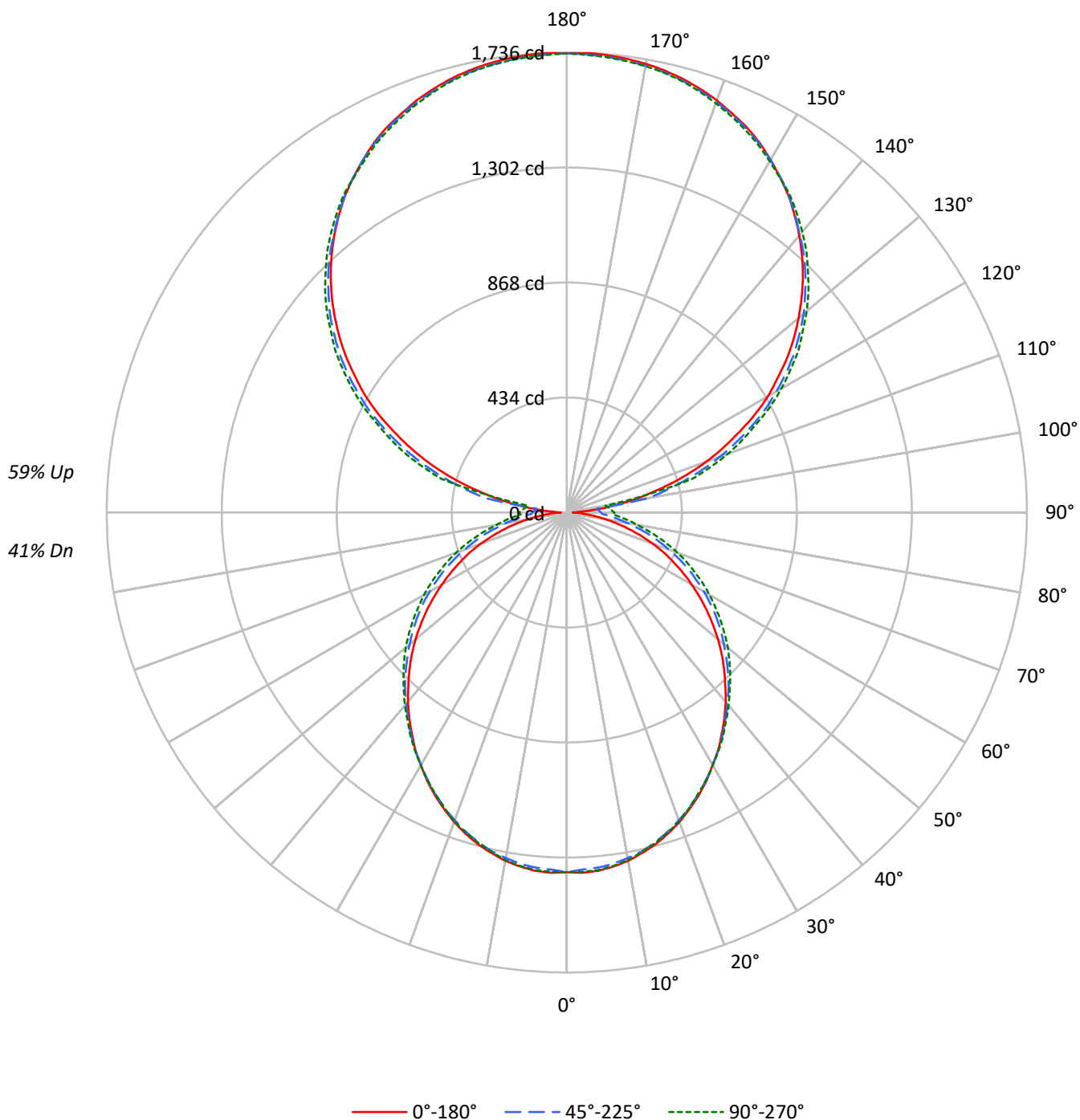
Lumens per Lamp: N/A
Luminaire Lumens: 9528.0 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48
1	95	91	87	83	87	83	79	76	68	65	63	54	53	51	42	41	40
2	86	79	73	67	78	72	67	62	59	55	52	47	45	42	36	34	33
3	79	69	62	56	71	63	57	51	52	47	43	42	38	35	32	30	28
4	72	61	53	47	65	56	49	43	46	41	37	37	33	30	28	26	24
5	66	54	46	40	60	50	42	37	41	36	31	33	29	26	26	23	20
6	61	48	40	34	55	44	37	32	37	31	27	30	26	23	23	20	18
7	56	44	36	30	51	40	33	28	33	28	24	27	23	20	21	18	16
8	52	40	32	26	47	36	29	25	30	25	21	25	21	18	19	16	14
9	48	36	29	23	44	33	26	22	28	23	19	23	19	16	18	15	13
10	45	33	26	21	41	30	24	20	26	20	17	21	17	14	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8695	8695	8695
5°	8709	8513	8533
10°	8644	8339	8315
15°	8539	8137	8047
20°	8397	7893	7780
25°	8228	7634	7458
30°	8024	7351	7165
35°	7834	7090	6895
40°	7641	6815	6623
45°	7421	6576	6378
50°	7212	6317	6157
55°	6960	6071	5900
60°	6684	5790	5637
65°	6394	5493	5341
70°	6063	5096	5033
75°	5543	4705	4656
80°	4857	4228	4240
85°	4185	3847	4022

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 7421 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	1.3
10°-20°	364.6	3.8
20°-30°	542.1	5.7
30°-40°	642.0	6.7
40°-50°	663.7	7.0
50°-60°	611.4	6.4
60°-70°	494.3	5.2
70°-80°	330.7	3.5
80°-90°	173.5	1.8
90°-100°	155.1	1.6
100°-110°	462.0	4.8
110°-120°	751.6	7.9
120°-130°	930.6	9.8
130°-140°	983.8	10.3
140°-150°	914.6	9.6
150°-160°	737.9	7.7
160°-170°	477.2	5.0
170°-180°	164.6	1.7
0°-30°	1035.1	10.9
0°-40°	1677.1	17.6
0°-60°	2952.3	31.0
0°-90°	3950.8	41.5
90°-120°	1368.6	14.4
90°-150°	4197.6	44.1
90°-180°	5577.0	58.5
0°-180°	9528.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1357	1357	1357	1357	1357	
5°	1357	1354	1345	1356	1354	129
15°	1296	1297	1288	1296	1291	365
25°	1178	1182	1174	1179	1172	542
35°	1019	1028	1024	1028	1028	638
45°	840	854	861	870	872	648
55°	645	667	688	702	708	577
65°	444	475	507	527	532	441
75°	245	279	322	349	355	259
85°	73	117	164	193	204	76
90°	23	76	130	167	180	18
95°	90	121	118	153	163	103
105°	390	416	456	482	490	413
115°	717	733	768	787	788	711
125°	1013	1021	1048	1064	1067	905
135°	1260	1266	1273	1288	1287	971
145°	1459	1460	1460	1468	1466	912
155°	1605	1598	1600	1604	1594	740
165°	1694	1686	1687	1695	1685	478
175°	1732	1725	1726	1736	1725	165
180°	1732	1732	1732	1732	1732	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1357.1	1357.1	1357.1	1357.1	1357.1
2.5°	1361.1	1358.4	1349.1	1358.4	1357.1
5°	1357.1	1354.4	1345.1	1355.8	1354.4
7.5°	1347.8	1346.4	1337.1	1346.4	1345.1
10°	1334.5	1334.5	1323.8	1333.1	1331.8
12.5°	1315.8	1317.2	1309.2	1315.8	1311.8
15°	1295.9	1297.2	1287.9	1295.9	1290.6
17.5°	1270.6	1273.3	1263.9	1270.6	1266.6
20°	1242.7	1245.3	1236.0	1240.0	1240.0
22.5°	1210.7	1216.1	1205.4	1210.7	1206.7
25°	1177.5	1181.5	1173.5	1178.8	1172.1
27.5°	1141.5	1146.9	1137.6	1141.5	1138.9
30°	1100.3	1108.3	1100.3	1103.0	1101.6
32.5°	1063.0	1069.7	1064.4	1067.0	1065.7
35°	1019.1	1028.5	1024.5	1028.5	1028.5
37.5°	976.6	984.5	983.2	988.5	987.2
40°	932.7	943.3	942.0	947.3	950.0
42.5°	884.8	899.4	903.4	910.0	910.0
45°	839.5	854.2	860.8	870.1	871.5
47.5°	793.0	806.3	816.9	830.2	832.9
50°	745.1	759.7	774.3	789.0	793.0
52.5°	694.5	713.1	731.8	747.7	750.4
55°	645.3	666.6	687.9	702.5	707.8
57.5°	594.7	620.0	643.9	659.9	663.9
60°	544.2	570.8	597.4	617.3	621.3
62.5°	494.9	521.5	550.8	573.4	578.8
65°	444.4	475.0	506.9	526.9	532.2
67.5°	397.8	427.1	459.0	483.0	489.6
70°	345.9	376.5	411.1	436.4	444.4
72.5°	295.4	327.3	365.9	393.8	399.1
75°	244.8	279.4	322.0	348.6	355.2
77.5°	195.6	235.5	275.4	304.7	310.0
80°	150.3	190.3	235.5	264.8	270.1
82.5°	109.1	151.7	198.2	226.2	236.8
85°	73.2	117.1	163.6	192.9	203.6
87.5°	46.6	89.1	134.4	165.0	174.3
90°	22.6	75.5	129.6	166.7	179.8
92.5°	43.0	70.0	124.3	160.0	170.7
95°	90.5	121.2	117.6	153.4	162.7
97.5°	153.4	193.0	114.9	145.4	156.1
100°	229.1	260.9	308.6	145.2	148.1
102.5°	306.1	336.5	380.3	409.5	309.6
105°	389.5	416.0	455.9	482.5	490.5
107.5°	475.5	494.2	535.3	563.2	566.0
110°	558.9	574.9	614.7	636.1	646.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	638.5	654.4	691.6	710.4	717.2
115°	716.9	732.6	768.5	787.2	787.5
117.5°	799.0	805.6	844.1	859.0	865.7
120°	876.1	878.7	913.2	933.3	934.8
122.5°	942.7	950.6	981.1	999.8	1000.1
125°	1013.4	1021.1	1047.7	1063.8	1066.6
127.5°	1080.1	1085.3	1106.6	1123.9	1121.6
130°	1141.8	1146.9	1166.8	1181.5	1181.8
132.5°	1202.1	1209.8	1219.3	1237.9	1236.8
135°	1259.9	1266.2	1272.9	1287.7	1286.7
137.5°	1313.8	1320.2	1323.0	1338.9	1337.8
140°	1365.1	1367.7	1367.8	1384.9	1382.5
142.5°	1412.6	1412.6	1415.2	1427.2	1424.8
145°	1458.8	1460.1	1460.1	1468.1	1465.7
147.5°	1498.6	1498.6	1499.9	1503.9	1497.5
150°	1537.2	1534.6	1537.2	1539.7	1530.8
152.5°	1574.4	1568.0	1570.5	1573.1	1564.1
155°	1605.2	1597.5	1600.1	1603.9	1593.7
157.5°	1629.6	1625.8	1625.8	1629.6	1619.3
160°	1655.3	1647.6	1648.9	1654.0	1643.7
162.5°	1675.9	1668.1	1669.4	1677.1	1665.6
165°	1693.8	1686.1	1687.4	1695.1	1684.8
167.5°	1708.0	1700.3	1701.5	1710.5	1699.0
170°	1719.5	1710.5	1711.8	1722.1	1710.5
172.5°	1727.2	1718.2	1720.8	1729.8	1718.2
175°	1732.4	1724.7	1725.9	1736.2	1724.7
177.5°	1736.2	1728.5	1729.8	1738.8	1728.5
180°	1732.4	1732.4	1732.4	1732.4	1732.4

(END OF REPORT)