

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: P1035139

Luminaire Tested: S125DIW-B1270D1340UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035139
REPORT IS A COMBINATION OF REPORTS P1003175 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1270D1340UB50-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

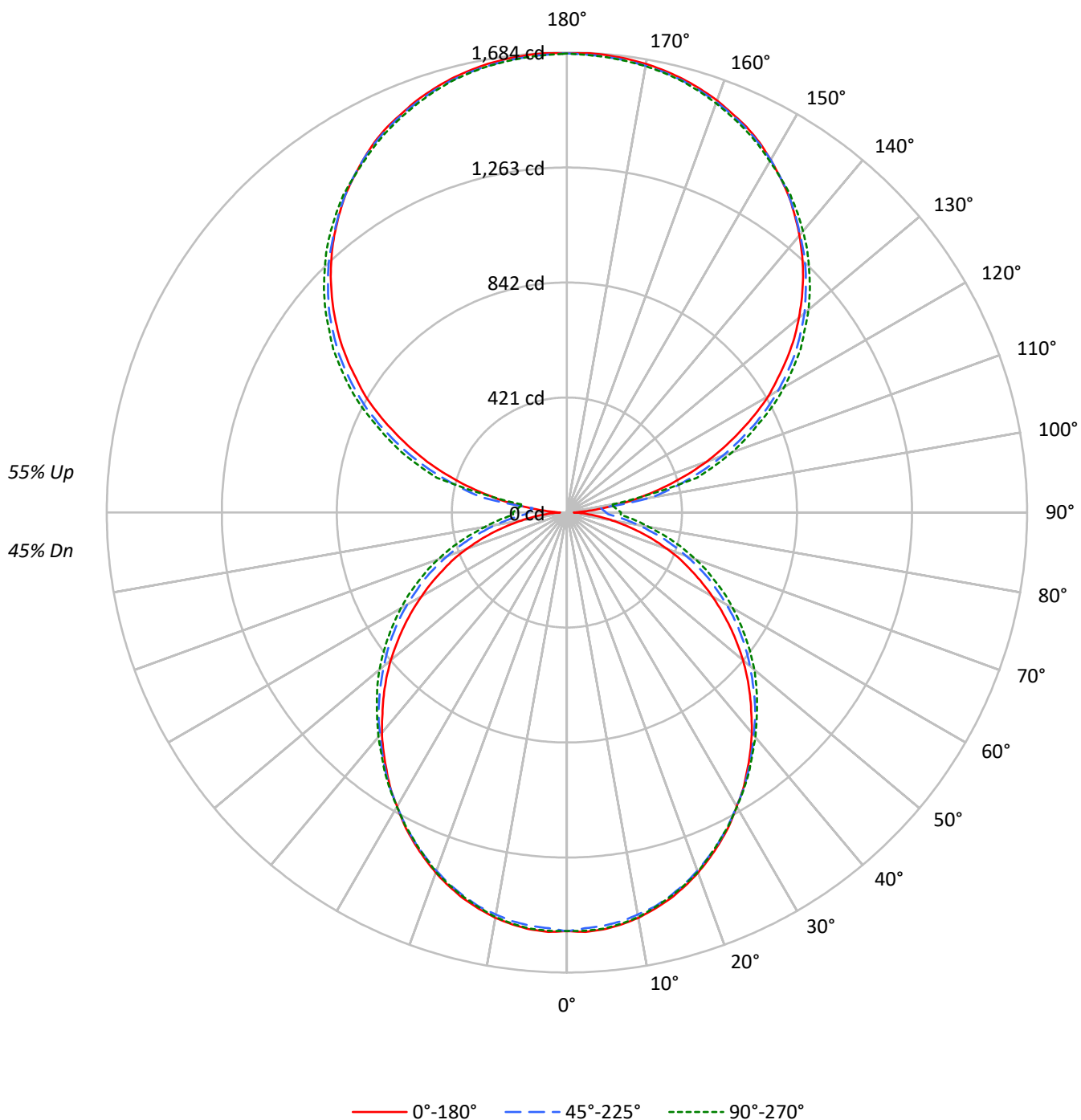
Lumens per Lamp: N/A
Luminaire Lumens: 9911.0 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 103.4
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	106	106	106	106	97	97	97	97	81	81	81	65	65	65	52	52	52	45		
1	96	91	87	84	88	84	80	77	70	67	65	57	55	53	44	43	42	37		
2	87	79	73	68	79	73	67	63	61	57	53	49	46	44	39	37	35	30		
3	79	70	62	56	72	64	57	52	53	48	44	43	40	37	34	32	29	25		
4	72	61	53	47	66	56	49	44	47	42	38	38	34	31	30	28	25	21		
5	66	55	46	40	60	50	43	38	42	36	32	34	30	27	27	24	22	18		
6	61	49	41	35	56	45	38	32	38	32	28	31	27	24	25	22	19	16		
7	56	44	36	30	51	41	33	28	34	29	25	28	24	21	23	19	17	14		
8	52	40	32	27	48	37	30	25	31	26	22	26	22	18	21	18	15	13		
9	49	36	29	24	44	34	27	22	28	23	19	24	19	16	19	16	14	11		
10	45	33	26	21	42	31	24	20	26	21	17	22	18	15	18	15	12	10		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9818	9818	9818
5°	9834	9612	9636
10°	9760	9416	9389
15°	9642	9188	9086
20°	9481	8913	8786
25°	9291	8619	8421
30°	9061	8300	8091
35°	8846	8005	7785
40°	8627	7695	7478
45°	8380	7426	7201
50°	8143	7133	6952
55°	7858	6855	6662
60°	7546	6537	6365
65°	7220	6203	6031
70°	6847	5755	5683
75°	6258	5313	5258
80°	5487	4774	4788
85°	4723	4345	4541

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8380 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.0	1.5
10°-20°	411.6	4.2
20°-30°	612.1	6.2
30°-40°	724.9	7.3
40°-50°	749.5	7.6
50°-60°	690.4	7.0
60°-70°	558.1	5.6
70°-80°	373.4	3.8
80°-90°	195.5	2.0
90°-100°	165.8	1.7
100°-110°	459.4	4.6
110°-120°	736.5	7.4
120°-130°	906.9	9.2
130°-140°	956.0	9.6
140°-150°	887.4	9.0
150°-160°	715.7	7.2
160°-170°	462.9	4.7
170°-180°	159.6	1.6
0°-30°	1168.8	11.8
0°-40°	1893.7	19.1
0°-60°	3333.6	33.6
0°-90°	4460.6	45.0
90°-120°	1361.7	13.7
90°-150°	4112.1	41.5
90°-180°	5450.0	55.0
0°-180°	9911.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1532	1532	1532	1532	1532	
5°	1532	1529	1519	1531	1529	145
15°	1463	1465	1454	1463	1457	412
25°	1330	1334	1325	1331	1324	612
35°	1151	1161	1157	1161	1161	720
45°	948	964	972	982	984	731
55°	729	753	777	793	799	651
65°	502	536	572	595	601	498
75°	276	316	364	394	401	293
85°	83	132	185	218	230	86
90°	25	83	143	184	198	20
95°	90	126	130	169	179	102
105°	380	409	454	484	493	402
115°	697	713	754	776	777	691
125°	984	991	1021	1040	1044	879
135°	1222	1228	1236	1253	1254	942
145°	1415	1416	1416	1425	1424	885
155°	1557	1550	1552	1556	1546	717
165°	1643	1636	1637	1644	1634	464
175°	1680	1673	1674	1684	1673	160
180°	1680	1680	1680	1680	1680	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1532.4	1532.4	1532.4	1532.4	1532.4
2.5°	1536.9	1533.9	1523.4	1533.9	1532.4
5°	1532.4	1529.4	1518.8	1530.9	1529.4
7.5°	1521.8	1520.3	1509.8	1520.3	1518.8
10°	1506.8	1506.8	1494.8	1505.3	1503.8
12.5°	1485.8	1487.3	1478.3	1485.8	1481.3
15°	1463.3	1464.8	1454.2	1463.3	1457.2
17.5°	1434.7	1437.7	1427.2	1434.7	1430.2
20°	1403.2	1406.2	1395.7	1400.2	1400.2
22.5°	1367.1	1373.1	1361.1	1367.1	1362.6
25°	1329.6	1334.1	1325.0	1331.1	1323.5
27.5°	1289.0	1295.0	1284.5	1289.0	1286.0
30°	1242.4	1251.4	1242.4	1245.4	1243.9
32.5°	1200.4	1207.9	1201.9	1204.9	1203.4
35°	1150.8	1161.3	1156.8	1161.3	1161.3
37.5°	1102.7	1111.7	1110.2	1116.2	1114.7
40°	1053.1	1065.1	1063.6	1069.7	1072.7
42.5°	999.0	1015.6	1020.1	1027.6	1027.6
45°	948.0	964.5	972.0	982.5	984.0
47.5°	895.4	910.4	922.4	937.4	940.5
50°	841.3	857.8	874.3	890.9	895.4
52.5°	784.2	805.2	826.3	844.3	847.3
55°	728.6	752.7	776.7	793.2	799.2
57.5°	671.5	700.1	727.1	745.2	749.7
60°	614.4	644.5	674.5	697.1	701.6
62.5°	558.9	588.9	622.0	647.5	653.5
65°	501.8	536.3	572.4	594.9	600.9
67.5°	449.2	482.2	518.3	545.3	552.9
70°	390.6	425.2	464.2	492.8	501.8
72.5°	333.5	369.6	413.1	444.7	450.7
75°	276.4	315.5	363.6	393.6	401.1
77.5°	220.8	265.9	311.0	344.0	350.0
80°	169.8	214.8	265.9	299.0	305.0
82.5°	123.2	171.3	223.8	255.4	267.4
85°	82.6	132.2	184.8	217.8	229.9
87.5°	52.6	100.7	151.7	186.3	196.8
90°	25.2	83.3	143.1	183.9	198.2
92.5°	44.7	77.1	137.1	176.4	188.1
95°	90.5	125.9	129.6	168.9	179.4
97.5°	151.3	194.9	126.1	160.1	171.9
100°	224.5	259.8	312.8	158.8	162.9
102.5°	299.0	332.6	381.6	414.2	318.5
105°	379.7	408.8	453.8	483.9	493.1
107.5°	462.9	484.0	530.0	561.3	565.4
110°	543.6	561.6	606.2	631.1	642.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	620.8	638.1	679.9	701.9	710.0
115°	696.6	713.3	753.6	775.7	777.2
117.5°	776.0	783.5	826.1	844.1	852.1
120°	850.8	854.0	892.4	915.4	918.1
122.5°	915.3	923.0	957.4	978.9	980.4
125°	983.8	991.0	1021.1	1040.1	1043.9
127.5°	1048.3	1053.0	1077.3	1097.4	1096.4
130°	1108.1	1112.8	1135.1	1152.4	1153.7
132.5°	1166.4	1173.8	1185.1	1206.2	1206.0
135°	1222.4	1228.4	1236.4	1253.4	1253.5
137.5°	1274.7	1280.7	1284.2	1302.2	1302.0
140°	1324.3	1326.8	1327.1	1346.0	1344.6
142.5°	1370.4	1370.1	1372.6	1386.1	1384.7
145°	1415.2	1416.2	1416.2	1425.0	1423.5
147.5°	1453.6	1453.6	1454.8	1459.1	1453.4
150°	1491.0	1488.5	1491.0	1493.5	1485.0
152.5°	1527.1	1520.9	1523.4	1525.8	1517.1
155°	1557.0	1549.5	1552.0	1555.7	1545.8
157.5°	1580.6	1576.9	1576.9	1580.6	1570.7
160°	1605.6	1598.1	1599.3	1604.3	1594.3
162.5°	1625.5	1618.0	1619.3	1626.7	1615.5
165°	1642.9	1635.5	1636.7	1644.2	1634.2
167.5°	1656.6	1649.2	1650.4	1659.1	1647.9
170°	1667.8	1659.1	1660.4	1670.3	1659.1
172.5°	1675.3	1666.6	1669.1	1677.8	1666.6
175°	1680.3	1672.8	1674.1	1684.0	1672.8
177.5°	1684.0	1676.6	1677.8	1686.5	1676.6
180°	1680.3	1680.3	1680.3	1680.3	1680.3

(END OF REPORT)