

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: P1034409

Luminaire Tested: S125DIW-B1270D1340UB2750-4F0-XX-W2A-D1_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034409
REPORT IS A COMBINATION OF REPORTS P1003131 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1270D1340UB2750-4F0-XX-W2A-D1_5000K
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

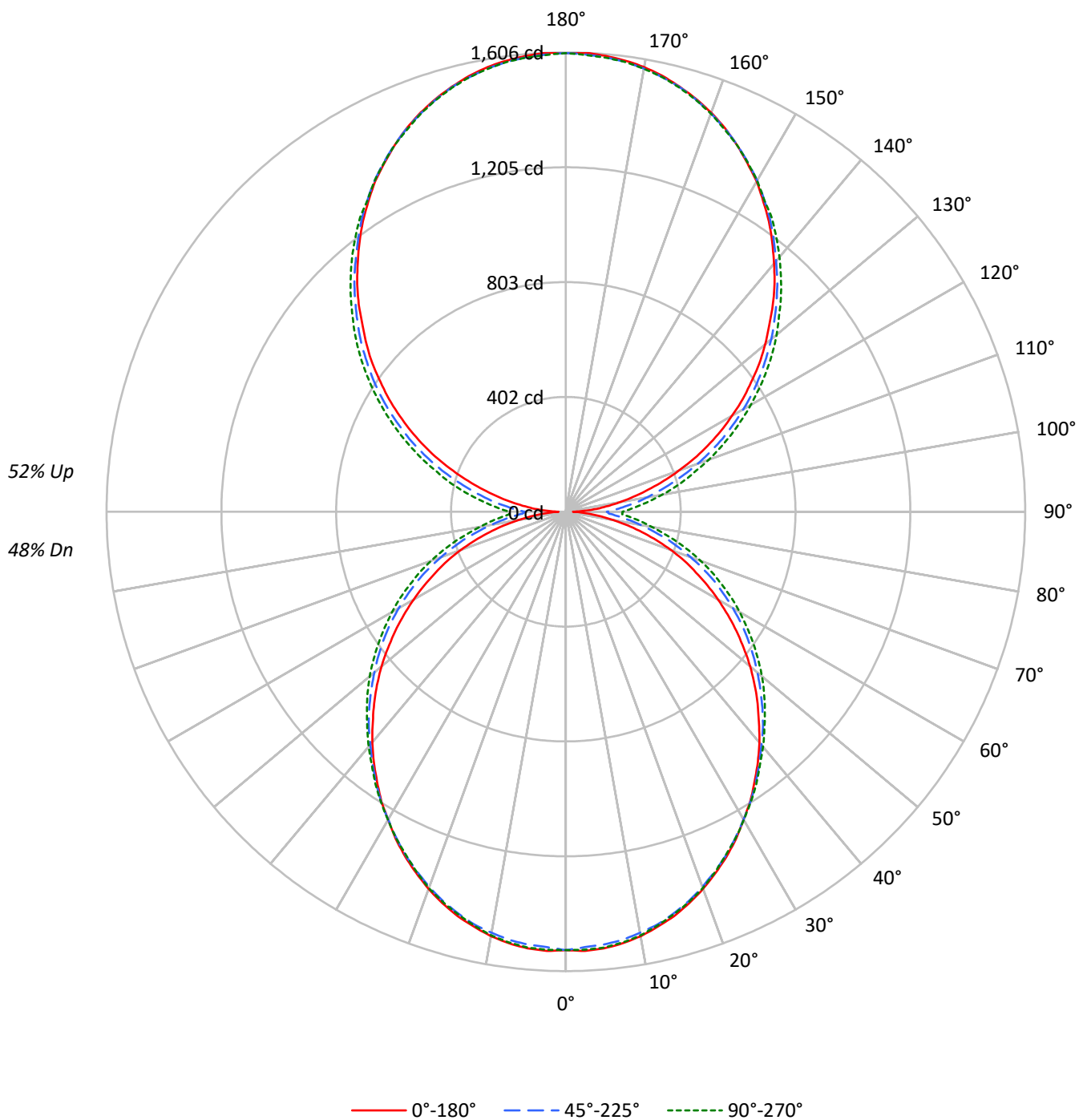
Lumens per Lamp: N/A
Luminaire Lumens: 9225.0 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	55	55	55
1	97	92	88	84	89	85	81	78	71	69	66	59	57	55	47	46	45
2	88	80	74	68	80	74	68	63	62	58	54	51	48	45	41	39	37
3	80	70	62	56	73	65	58	53	54	49	45	45	41	38	36	34	31
4	73	62	54	48	67	57	50	44	48	43	38	40	36	32	32	29	27
5	67	55	47	41	61	51	43	38	43	37	33	36	31	28	29	26	23
6	62	49	41	35	56	46	38	33	39	33	29	32	28	24	26	23	20
7	57	44	36	31	52	41	34	29	35	29	25	29	25	22	24	21	18
8	53	40	32	27	48	37	30	25	32	26	22	27	22	19	22	19	16
9	49	37	29	24	45	34	27	23	29	24	20	25	20	17	20	17	14
10	46	34	26	21	42	31	25	20	27	22	18	23	18	15	19	15	13

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	1.6
10°-20°	411.6	4.5
20°-30°	612.1	6.6
30°-40°	724.9	7.9
40°-50°	749.5	8.1
50°-60°	690.4	7.5
60°-70°	558.1	6.1
70°-80°	373.4	4.0
80°-90°	195.5	2.1
90°-100°	215.3	2.3
100°-110°	397.0	4.3
110°-120°	590.9	6.4
120°-130°	737.7	8.0
130°-140°	805.9	8.7
140°-150°	779.5	8.4
150°-160°	652.5	7.1
160°-170°	433.8	4.7
170°-180°	151.8	1.6
0°-30°	1168.8	12.7
0°-40°	1893.7	20.5
0°-60°	3333.6	36.1
0°-90°	4460.7	48.4
90°-120°	1203.2	13.0
90°-150°	3526.2	38.2
90°-180°	4764.0	51.6
0°-180°	9225.0	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	22
95°	101	142	206	248	260	100
105°	298	328	381	418	433	318
115°	547	562	604	630	638	541
125°	791	797	828	850	856	708
135°	1024	1030	1042	1061	1064	789
145°	1238	1242	1245	1253	1255	774
155°	1415	1415	1416	1421	1415	652
165°	1539	1536	1538	1542	1535	434
175°	1600	1595	1595	1602	1594	152
180°	1604	1604	1604	1604	1604	

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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	143.2	183.9	198.3
92.5°	58.4	108.3	172.1	213.8	226.8
95°	100.6	142.2	205.8	247.5	260.5
97.5°	142.8	180.1	247.2	286.2	297.9
100°	191.2	222.8	287.0	329.9	341.4
102.5°	243.4	278.2	331.0	373.5	386.3
105°	298.0	328.4	380.9	418.4	432.7
107.5°	357.7	385.0	434.8	468.6	477.6
110°	419.8	444.1	489.9	522.2	531.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	484.7	500.7	546.3	574.6	582.7
115°	546.9	562.4	603.9	629.7	637.5
117.5°	610.3	619.0	659.1	685.8	691.4
120°	670.2	680.9	716.7	742.2	746.2
122.5°	733.5	736.3	773.1	795.9	801.1
125°	791.0	796.9	828.3	849.8	856.0
127.5°	853.1	855.3	882.1	903.4	909.9
130°	909.3	914.0	937.5	957.3	962.3
132.5°	963.9	975.1	988.9	1008.7	1011.0
135°	1023.8	1029.8	1041.5	1061.0	1063.7
137.5°	1080.0	1086.0	1094.5	1113.7	1113.5
140°	1132.1	1138.4	1143.6	1162.6	1162.4
142.5°	1185.8	1189.3	1194.3	1209.0	1208.8
145°	1238.2	1241.7	1245.4	1252.9	1255.2
147.5°	1285.4	1289.1	1291.6	1298.4	1291.4
150°	1334.0	1332.8	1337.8	1337.8	1336.8
152.5°	1374.0	1376.5	1377.7	1381.5	1376.5
155°	1415.2	1415.2	1416.4	1421.4	1415.2
157.5°	1452.6	1450.1	1451.3	1456.3	1447.6
160°	1485.0	1481.3	1482.5	1487.5	1481.3
162.5°	1513.7	1511.2	1511.2	1517.5	1510.0
165°	1538.7	1536.2	1537.5	1542.4	1535.0
167.5°	1561.2	1556.2	1556.2	1563.7	1556.2
170°	1578.6	1573.6	1573.6	1581.1	1572.4
172.5°	1591.1	1586.1	1586.1	1593.6	1586.1
175°	1599.9	1594.9	1594.9	1602.3	1593.6
177.5°	1606.1	1601.1	1599.9	1607.3	1598.6
180°	1603.6	1603.6	1603.6	1603.6	1603.6

(END OF REPORT)