

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: P1034397

Luminaire Tested: S125DIW-B1270D1050UB2750-4F0-XX-W2A-D_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034397
REPORT IS A COMBINATION OF REPORTS P1003069 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1270D1050UB2750-4F0-XX-W2A-D_3500K
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

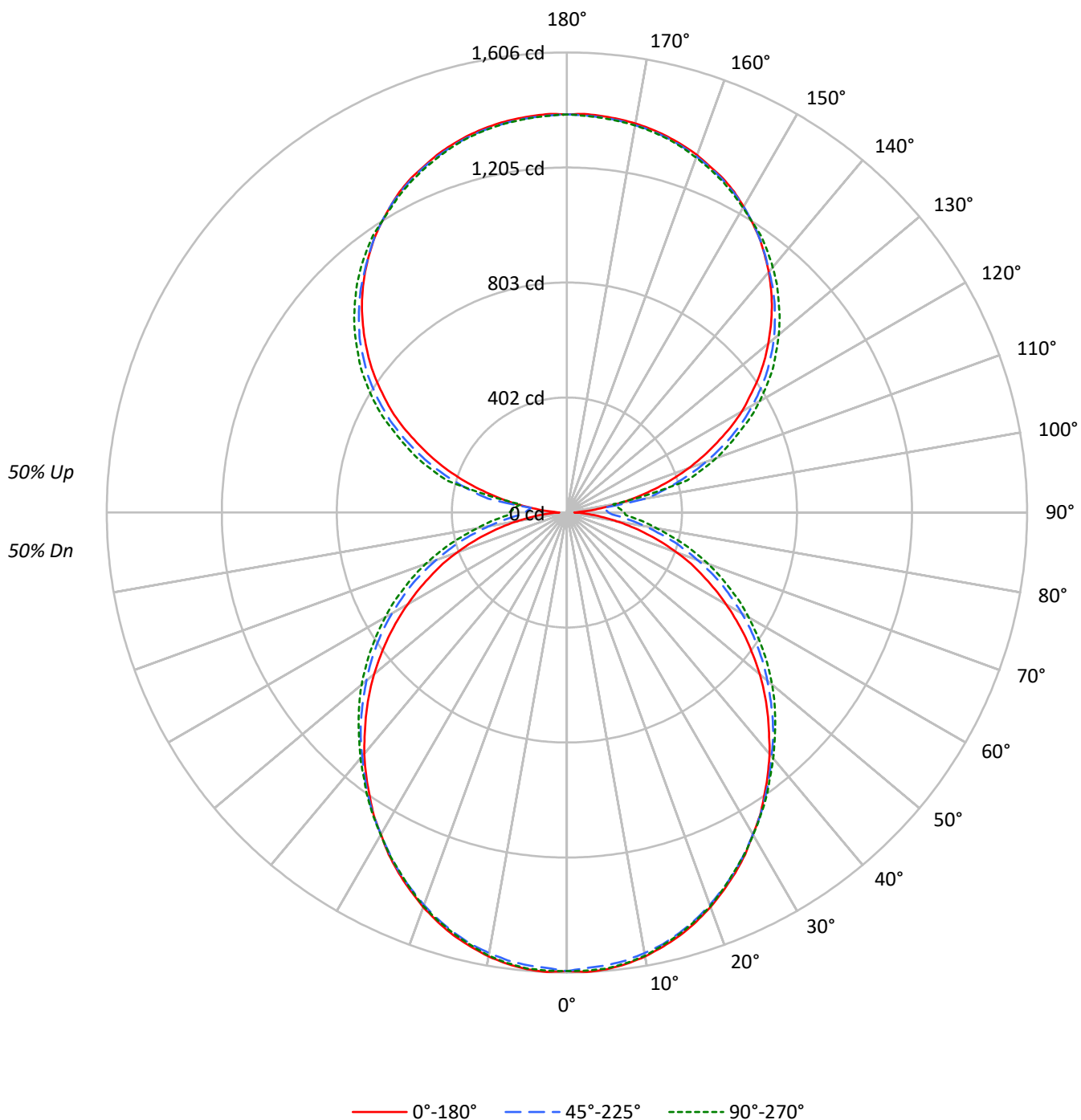
Lumens per Lamp: N/A
Luminaire Lumens: 9230.0 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 92.8
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	99	99	99	99	84	84	84	70	70	70	57	57	57
1	97	92	88	85	89	85	82	79	72	70	67	60	58	56	49	47	46
2	88	80	74	68	81	74	69	64	63	59	55	52	49	46	43	40	38
3	80	70	63	57	74	65	58	53	55	50	46	46	42	39	37	35	32
4	73	62	54	48	67	58	50	45	49	43	39	41	37	33	33	30	28
5	67	55	47	41	62	51	44	38	44	38	33	37	32	29	30	27	24
6	62	49	41	35	57	46	39	33	39	33	29	33	28	25	27	24	21
7	57	45	36	31	53	41	34	29	36	30	25	30	25	22	25	21	19
8	53	40	33	27	49	38	31	26	32	27	23	27	23	20	23	19	17
9	49	37	29	24	45	34	28	23	30	24	20	25	21	18	21	18	15
10	46	34	27	22	42	32	25	20	27	22	18	23	19	16	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10256	10256	10256
5°	10273	10042	10066
10°	10196	9837	9809
15°	10072	9599	9492
20°	9904	9311	9178
25°	9706	9004	8798
30°	9466	8671	8452
35°	9241	8362	8133
40°	9013	8038	7812
45°	8754	7757	7523
50°	8507	7452	7263
55°	8210	7161	6960
60°	7884	6830	6649
65°	7543	6479	6301
70°	7152	6011	5936
75°	6539	5549	5492
80°	5729	4988	5002
85°	4934	4538	4743

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8754 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.5	1.6
10°-20°	430.0	4.7
20°-30°	639.5	6.9
30°-40°	757.3	8.2
40°-50°	782.9	8.5
50°-60°	721.2	7.8
60°-70°	583.0	6.3
70°-80°	390.1	4.2
80°-90°	203.7	2.2
90°-100°	160.7	1.7
100°-110°	397.4	4.3
110°-120°	620.8	6.7
120°-130°	756.7	8.2
130°-140°	793.6	8.6
140°-150°	734.6	8.0
150°-160°	592.0	6.4
160°-170°	382.8	4.1
170°-180°	132.0	1.4
0°-30°	1221.0	13.2
0°-40°	1978.3	21.4
0°-60°	3482.4	37.7
0°-90°	4659.3	50.5
90°-120°	1178.9	12.8
90°-150°	3463.8	37.5
90°-180°	4571.0	49.5
0°-180°	9230.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1601	1601	1601	1601	1601	
5°	1601	1598	1587	1599	1598	152
15°	1529	1530	1519	1529	1522	431
25°	1389	1394	1384	1390	1383	639
35°	1202	1213	1208	1213	1213	753
45°	990	1008	1015	1026	1028	764
55°	761	786	811	829	835	680
65°	524	560	598	622	628	520
75°	289	330	380	411	419	306
85°	86	138	193	228	240	90
90°	26	85	145	186	200	20
95°	79	117	131	171	182	88
105°	317	346	393	425	435	336
115°	578	594	636	660	663	573
125°	815	821	852	873	878	728
135°	1012	1016	1025	1044	1045	780
145°	1171	1171	1171	1180	1180	732
155°	1288	1282	1284	1287	1278	593
165°	1359	1353	1354	1360	1352	384
175°	1390	1384	1385	1393	1384	132
180°	1390	1390	1390	1390	1390	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1600.8	1600.8	1600.8	1600.8	1600.8
2.5°	1605.5	1602.4	1591.4	1602.4	1600.8
5°	1600.8	1597.7	1586.7	1599.2	1597.7
7.5°	1589.8	1588.2	1577.3	1588.2	1586.7
10°	1574.1	1574.1	1561.6	1572.6	1571.0
12.5°	1552.1	1553.7	1544.3	1552.1	1547.4
15°	1528.6	1530.2	1519.2	1528.6	1522.3
17.5°	1498.8	1501.9	1490.9	1498.8	1494.1
20°	1465.8	1469.0	1458.0	1462.7	1462.7
22.5°	1428.2	1434.4	1421.9	1428.2	1423.5
25°	1388.9	1393.6	1384.2	1390.5	1382.7
27.5°	1346.6	1352.8	1341.8	1346.6	1343.4
30°	1297.9	1307.3	1297.9	1301.0	1299.5
32.5°	1254.0	1261.8	1255.5	1258.7	1257.1
35°	1202.2	1213.2	1208.4	1213.2	1213.2
37.5°	1151.9	1161.4	1159.8	1166.1	1164.5
40°	1100.2	1112.7	1111.1	1117.4	1120.6
42.5°	1043.7	1060.9	1065.6	1073.5	1073.5
45°	990.3	1007.6	1015.4	1026.4	1028.0
47.5°	935.4	951.1	963.6	979.3	982.5
50°	878.9	896.1	913.4	930.7	935.4
52.5°	819.2	841.2	863.2	882.0	885.1
55°	761.2	786.3	811.4	828.6	834.9
57.5°	701.5	731.3	759.6	778.4	783.1
60°	641.9	673.3	704.7	728.2	732.9
62.5°	583.8	615.2	649.7	676.4	682.7
65°	524.2	560.3	597.9	621.5	627.8
67.5°	469.3	503.8	541.4	569.7	577.5
70°	408.0	444.1	484.9	514.8	524.2
72.5°	348.4	386.1	431.6	464.5	470.8
75°	288.8	329.6	379.8	411.2	419.0
77.5°	230.7	277.8	324.9	359.4	365.7
80°	177.3	224.4	277.8	312.3	318.6
82.5°	128.7	178.9	233.8	266.8	279.4
85°	86.3	138.1	193.0	227.6	240.1
87.5°	54.9	105.2	158.5	194.6	205.6
90°	26.1	84.6	145.2	186.4	200.5
92.5°	41.6	77.8	138.9	178.5	190.6
95°	79.1	116.8	131.1	170.7	181.7
97.5°	129.0	172.9	126.8	161.8	173.8
100°	189.3	225.3	279.7	159.2	164.4
102.5°	250.6	284.5	335.3	368.7	291.6
105°	317.0	346.2	393.3	424.7	434.7
107.5°	385.5	407.4	455.0	487.4	492.7
110°	451.9	470.7	516.8	543.5	555.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	515.8	533.0	576.4	600.5	609.4
115°	578.1	594.2	636.0	660.2	663.4
117.5°	643.4	651.3	694.6	715.2	724.1
120°	705.2	709.0	748.2	772.7	777.0
122.5°	758.3	765.0	800.6	823.7	826.9
125°	815.0	820.6	852.0	873.0	877.8
127.5°	868.0	871.5	897.2	918.8	919.9
130°	917.4	921.0	944.0	962.9	965.6
132.5°	965.3	971.5	984.1	1006.1	1007.2
135°	1011.7	1016.3	1025.3	1043.6	1045.2
137.5°	1054.9	1059.6	1063.7	1082.6	1083.8
140°	1095.7	1097.7	1098.2	1117.6	1117.7
142.5°	1133.8	1133.2	1135.3	1149.4	1149.5
145°	1170.9	1171.3	1171.3	1180.2	1180.3
147.5°	1202.2	1202.2	1203.3	1207.4	1203.4
150°	1233.1	1231.1	1233.1	1235.2	1228.6
152.5°	1263.0	1257.9	1259.9	1262.0	1254.8
155°	1287.7	1281.6	1283.6	1286.7	1278.5
157.5°	1307.3	1304.2	1304.2	1307.3	1299.1
160°	1327.9	1321.7	1322.8	1326.9	1318.6
162.5°	1344.4	1338.2	1339.2	1345.4	1336.2
165°	1358.8	1352.6	1353.7	1359.8	1351.6
167.5°	1370.2	1364.0	1365.0	1372.2	1362.9
170°	1379.4	1372.2	1373.2	1381.5	1372.2
172.5°	1385.6	1378.4	1380.5	1387.7	1378.4
175°	1389.7	1383.5	1384.6	1392.8	1383.5
177.5°	1392.8	1386.6	1387.7	1394.9	1386.6
180°	1389.7	1389.7	1389.7	1389.7	1389.7

(END OF REPORT)