

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: P1034959

Luminaire Tested: S125DIW-B1090D1050UB40-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034959
REPORT IS A COMBINATION OF REPORTS P1002770 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1090D1050UB40-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

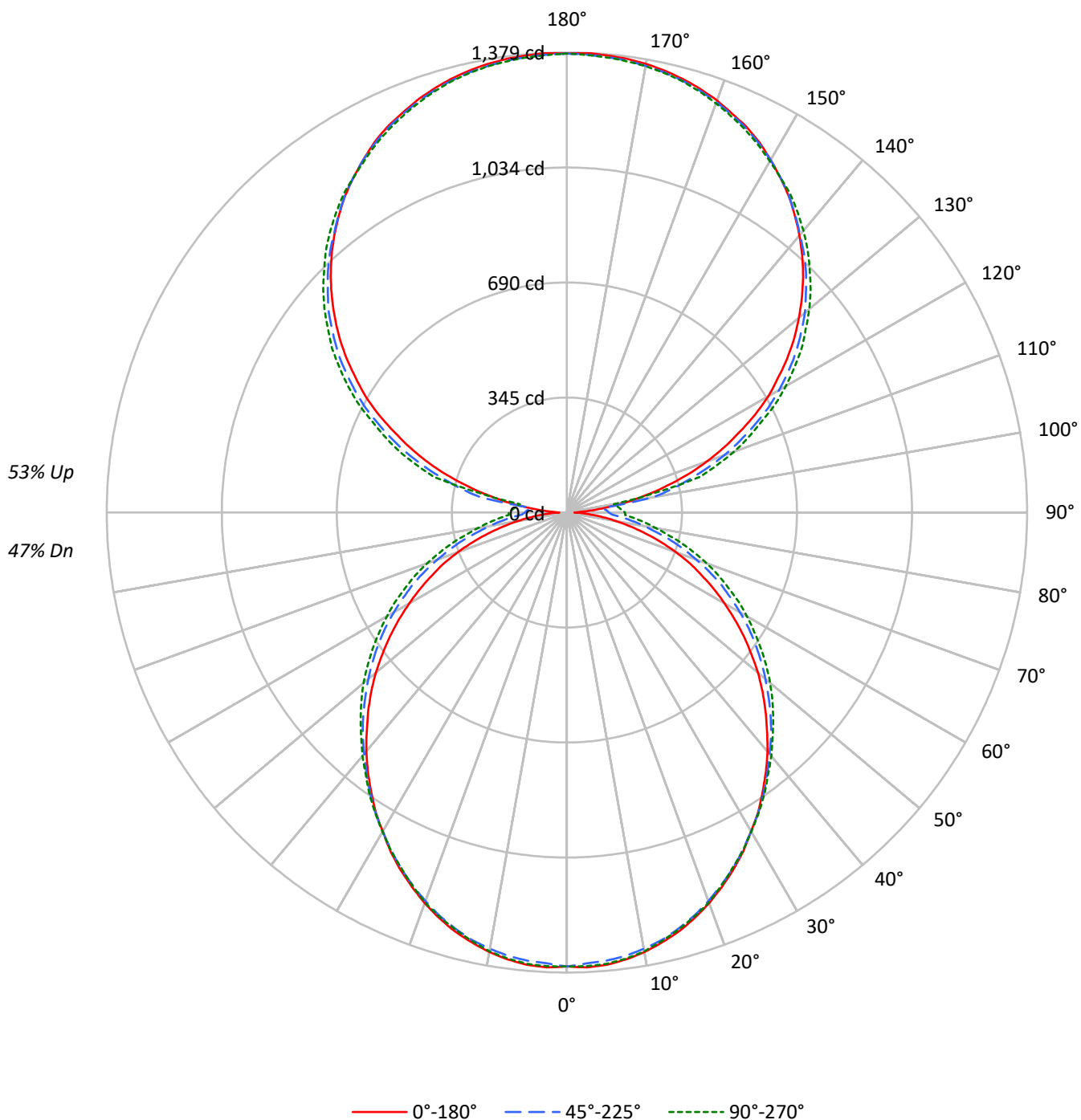
Lumens per Lamp: N/A
Luminaire Lumens: 8444.0 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 78.3
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	98	98	98	98	82	82	82	67	67	67	53	53	53
1	96	92	88	84	88	84	81	78	70	68	66	58	56	54	46	45	44
2	87	80	73	68	80	73	68	63	61	57	54	50	47	45	40	38	36
3	80	70	62	56	73	64	58	52	54	49	45	44	41	38	35	33	30
4	73	62	54	47	66	57	50	44	48	42	38	39	35	32	31	28	26
5	67	55	47	40	61	51	43	38	43	37	33	35	31	28	28	25	23
6	61	49	41	35	56	45	38	33	38	33	28	32	27	24	26	22	20
7	57	44	36	31	52	41	34	29	35	29	25	29	24	21	23	20	18
8	53	40	32	27	48	37	30	25	32	26	22	26	22	19	21	18	16
9	49	37	29	24	45	34	27	22	29	23	20	24	20	17	20	16	14
10	46	33	26	21	42	31	25	20	27	21	18	22	18	15	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8720	8720	8720
5°	8734	8537	8558
10°	8669	8363	8339
15°	8563	8161	8070
20°	8420	7915	7802
25°	8251	7655	7480
30°	8047	7371	7186
35°	7857	7110	6914
40°	7662	6834	6641
45°	7442	6595	6396
50°	7232	6335	6174
55°	6979	6088	5917
60°	6702	5806	5653
65°	6412	5510	5356
70°	6081	5111	5046
75°	5559	4718	4669
80°	4873	4241	4253
85°	4197	3859	4032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7442 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	1.5
10°-20°	365.6	4.3
20°-30°	543.6	6.4
30°-40°	643.8	7.6
40°-50°	665.6	7.9
50°-60°	613.2	7.3
60°-70°	495.7	5.9
70°-80°	331.7	3.9
80°-90°	173.5	2.1
90°-100°	143.2	1.7
100°-110°	381.7	4.5
110°-120°	606.8	7.2
120°-130°	744.7	8.8
130°-140°	783.7	9.3
140°-150°	726.8	8.6
150°-160°	586.0	6.9
160°-170°	379.0	4.5
170°-180°	130.7	1.5
0°-30°	1038.0	12.3
0°-40°	1681.9	19.9
0°-60°	2960.7	35.1
0°-90°	3961.5	46.9
90°-120°	1131.7	13.4
90°-150°	3386.8	40.1
90°-180°	4482.0	53.1
0°-180°	8444.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1361	1361	1361	1361	1361	
5°	1361	1358	1349	1360	1358	129
15°	1300	1301	1292	1300	1294	366
25°	1181	1185	1177	1182	1176	544
35°	1022	1031	1027	1031	1031	640
45°	842	857	863	873	874	650
55°	647	668	690	704	710	578
65°	446	476	508	528	534	442
75°	246	280	323	350	356	260
85°	73	117	164	194	204	77
90°	22	73	126	162	174	18
95°	75	107	114	148	158	85
105°	312	337	377	404	412	330
115°	571	585	621	641	643	566
125°	806	812	838	856	859	720
135°	1001	1006	1013	1028	1029	772
145°	1159	1160	1160	1167	1166	724
155°	1275	1269	1271	1274	1266	587
165°	1345	1339	1340	1346	1338	380
175°	1376	1370	1371	1379	1370	131
180°	1376	1376	1376	1376	1376	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1361.0	1361.0	1361.0	1361.0	1361.0
2.5°	1365.0	1362.3	1352.9	1362.3	1361.0
5°	1361.0	1358.3	1348.9	1359.6	1358.3
7.5°	1351.6	1350.3	1340.9	1350.3	1348.9
10°	1338.3	1338.3	1327.6	1336.9	1335.6
12.5°	1319.6	1320.9	1312.9	1319.6	1315.6
15°	1299.6	1300.9	1291.6	1299.6	1294.2
17.5°	1274.2	1276.9	1267.6	1274.2	1270.2
20°	1246.2	1248.9	1239.5	1243.5	1243.5
22.5°	1214.2	1219.5	1208.8	1214.2	1210.2
25°	1180.8	1184.8	1176.8	1182.2	1175.5
27.5°	1144.8	1150.1	1140.8	1144.8	1142.1
30°	1103.4	1111.4	1103.4	1106.1	1104.8
32.5°	1066.1	1072.8	1067.4	1070.1	1068.7
35°	1022.1	1031.4	1027.4	1031.4	1031.4
37.5°	979.4	987.4	986.0	991.4	990.0
40°	935.3	946.0	944.7	950.0	952.7
42.5°	887.3	902.0	906.0	912.6	912.6
45°	841.9	856.6	863.3	872.6	873.9
47.5°	795.2	808.6	819.2	832.6	835.3
50°	747.2	761.9	776.5	791.2	795.2
52.5°	696.5	715.2	733.8	749.9	752.5
55°	647.1	668.5	689.8	704.5	709.8
57.5°	596.4	621.8	645.8	661.8	665.8
60°	545.7	572.4	599.1	619.1	623.1
62.5°	496.3	523.0	552.4	575.1	580.4
65°	445.6	476.3	508.4	528.4	533.7
67.5°	398.9	428.3	460.3	484.3	491.0
70°	346.9	377.6	412.3	437.6	445.6
72.5°	296.2	328.2	366.9	394.9	400.3
75°	245.5	280.2	322.9	349.6	356.2
77.5°	196.1	236.2	276.2	305.5	310.9
80°	150.8	190.8	236.2	265.5	270.9
82.5°	109.4	152.1	198.8	226.8	237.5
85°	73.4	117.4	164.1	193.5	204.1
87.5°	46.7	89.4	134.8	165.4	174.8
90°	22.3	73.2	125.7	161.5	173.9
92.5°	38.1	67.6	120.4	154.8	165.2
95°	75.4	107.1	113.7	148.2	157.5
97.5°	125.1	163.2	110.5	140.5	150.8
100°	185.0	216.1	262.8	138.9	142.8
102.5°	245.8	275.3	318.7	347.4	269.7
105°	311.8	337.3	377.3	404.0	412.3
107.5°	379.9	398.6	439.2	466.9	470.9
110°	445.8	461.9	501.2	523.6	533.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	509.0	524.1	561.2	581.1	588.4
115°	570.9	585.3	621.1	641.1	643.0
117.5°	635.9	642.5	680.0	696.6	703.8
120°	697.1	700.1	733.9	754.4	757.4
122.5°	749.8	756.3	786.6	805.9	807.8
125°	805.9	811.7	838.4	855.6	859.3
127.5°	858.6	862.4	884.1	902.0	901.9
130°	907.6	911.4	931.0	946.6	948.2
132.5°	955.2	961.3	971.6	990.3	990.5
135°	1001.1	1005.8	1013.2	1028.4	1029.0
137.5°	1043.9	1048.7	1052.0	1068.0	1068.2
140°	1084.3	1086.4	1086.8	1103.4	1102.7
142.5°	1122.1	1121.8	1123.8	1135.8	1135.0
145°	1158.8	1159.5	1159.5	1167.3	1166.4
147.5°	1190.1	1190.1	1191.1	1194.9	1190.3
150°	1220.7	1218.7	1220.7	1222.8	1215.9
152.5°	1250.3	1245.2	1247.2	1249.3	1242.1
155°	1274.8	1268.7	1270.7	1273.8	1265.6
157.5°	1294.1	1291.1	1291.1	1294.1	1286.0
160°	1314.5	1308.4	1309.4	1313.5	1305.4
162.5°	1330.9	1324.7	1325.8	1331.9	1322.7
165°	1345.1	1339.0	1340.0	1346.2	1338.0
167.5°	1356.4	1350.2	1351.3	1358.4	1349.2
170°	1365.5	1358.4	1359.4	1367.6	1358.4
172.5°	1371.7	1364.5	1366.6	1373.7	1364.5
175°	1375.7	1369.6	1370.6	1378.8	1369.6
177.5°	1378.8	1372.7	1373.7	1380.8	1372.7
180°	1375.7	1375.7	1375.7	1375.7	1375.7

(END OF REPORT)