

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: P1034941

Luminaire Tested: S125DIW-B1090D1050UB27-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034941
REPORT IS A COMBINATION OF REPORTS P1002722 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1090D1050UB27-4F0-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

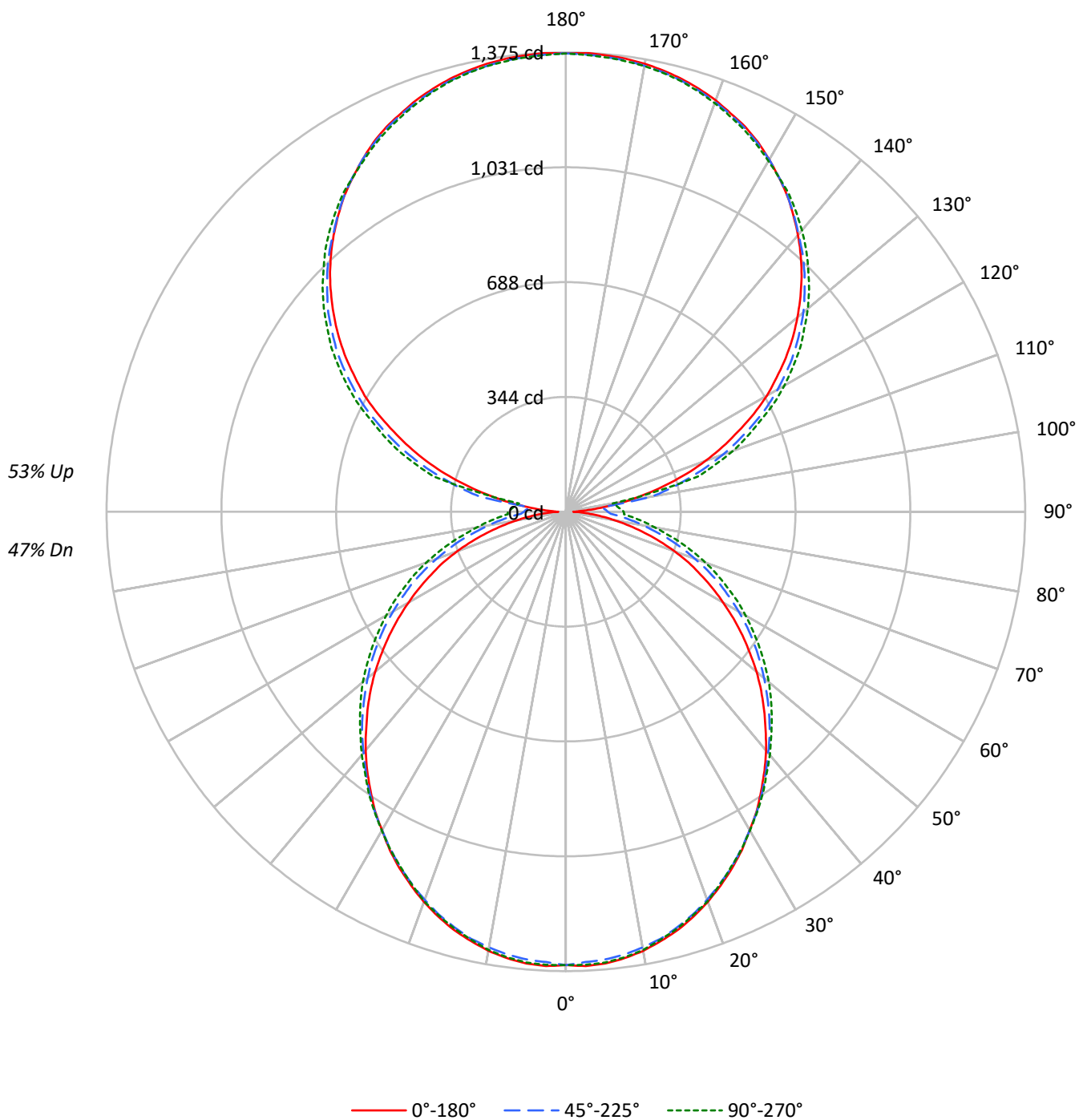
Lumens per Lamp: N/A
Luminaire Lumens: 8420.0 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 78.3
Input Voltage (V):
Input Current (A_{in}): 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°	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	1.5
10°-20°	364.6	4.3
20°-30°	542.1	6.4
30°-40°	642.0	7.6
40°-50°	663.7	7.9
50°-60°	611.4	7.3
60°-70°	494.3	5.9
70°-80°	330.7	3.9
80°-90°	173.0	2.1
90°-100°	142.9	1.7
100°-110°	380.6	4.5
110°-120°	605.0	7.2
120°-130°	742.5	8.8
130°-140°	781.5	9.3
140°-150°	724.7	8.6
150°-160°	584.3	6.9
160°-170°	377.9	4.5
170°-180°	130.3	1.5
0°-30°	1035.1	12.3
0°-40°	1677.1	19.9
0°-60°	2952.3	35.1
0°-90°	3950.2	46.9
90°-120°	1128.5	13.4
90°-150°	3377.2	40.1
90°-180°	4470.0	53.1
0°-180°	8420.0	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°	22	73	125	161	173	18
95°	75	107	113	148	157	85
105°	311	336	376	403	411	329
115°	569	584	619	639	641	564
125°	804	809	836	853	857	718
135°	998	1003	1010	1026	1026	770
145°	1156	1156	1156	1164	1163	722
155°	1271	1265	1267	1270	1262	586
165°	1341	1335	1336	1342	1334	379
175°	1372	1366	1367	1375	1366	131
180°	1372	1372	1372	1372	1372	

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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°	22.3	73.1	125.4	161.1	173.4
92.5°	37.9	67.4	120.1	154.4	164.8
95°	75.3	106.8	113.4	147.8	157.1
97.5°	124.8	162.8	110.1	140.0	150.5
100°	184.4	215.5	262.1	138.5	142.5
102.5°	245.2	274.5	317.8	346.4	269.0
105°	311.0	336.3	376.2	402.8	411.1
107.5°	378.7	397.4	438.1	465.7	469.5
110°	444.5	460.5	499.8	522.0	532.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	507.6	522.6	559.6	579.5	586.8
115°	569.3	583.7	619.3	639.2	641.1
117.5°	634.1	640.7	678.1	694.6	701.9
120°	695.2	698.0	731.7	752.4	755.2
122.5°	747.7	754.1	784.4	803.6	805.5
125°	803.6	809.4	836.0	853.2	856.8
127.5°	856.2	860.0	881.5	899.4	899.3
130°	905.0	908.8	928.4	943.9	945.6
132.5°	952.5	958.6	968.9	987.5	987.7
135°	998.3	1003.0	1010.2	1025.5	1026.1
137.5°	1041.0	1045.7	1049.0	1064.9	1065.2
140°	1081.3	1083.3	1083.7	1100.3	1099.5
142.5°	1118.9	1118.6	1120.6	1132.6	1131.8
145°	1155.5	1156.2	1156.2	1164.0	1163.2
147.5°	1186.7	1186.7	1187.8	1191.5	1187.0
150°	1217.3	1215.2	1217.3	1219.3	1212.5
152.5°	1246.7	1241.7	1243.7	1245.7	1238.6
155°	1271.2	1265.1	1267.1	1270.1	1262.0
157.5°	1290.5	1287.4	1287.4	1290.5	1282.3
160°	1310.8	1304.7	1305.7	1309.8	1301.7
162.5°	1327.1	1321.0	1322.0	1328.1	1318.9
165°	1341.3	1335.2	1336.2	1342.3	1334.2
167.5°	1352.5	1346.4	1347.4	1354.5	1345.4
170°	1361.7	1354.5	1355.6	1363.7	1354.5
172.5°	1367.8	1360.6	1362.7	1369.8	1360.6
175°	1371.8	1365.7	1366.7	1374.9	1365.7
177.5°	1374.9	1368.8	1369.8	1376.9	1368.8
180°	1371.8	1371.8	1371.8	1371.8	1371.8

(END OF REPORT)