

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: P1034321

Luminaire Tested: S125DIW-B1090D1050UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034321
REPORT IS A COMBINATION OF REPORTS P1002738 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1090D1050UB2750-4F0-XX-W2A-D_3000K
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

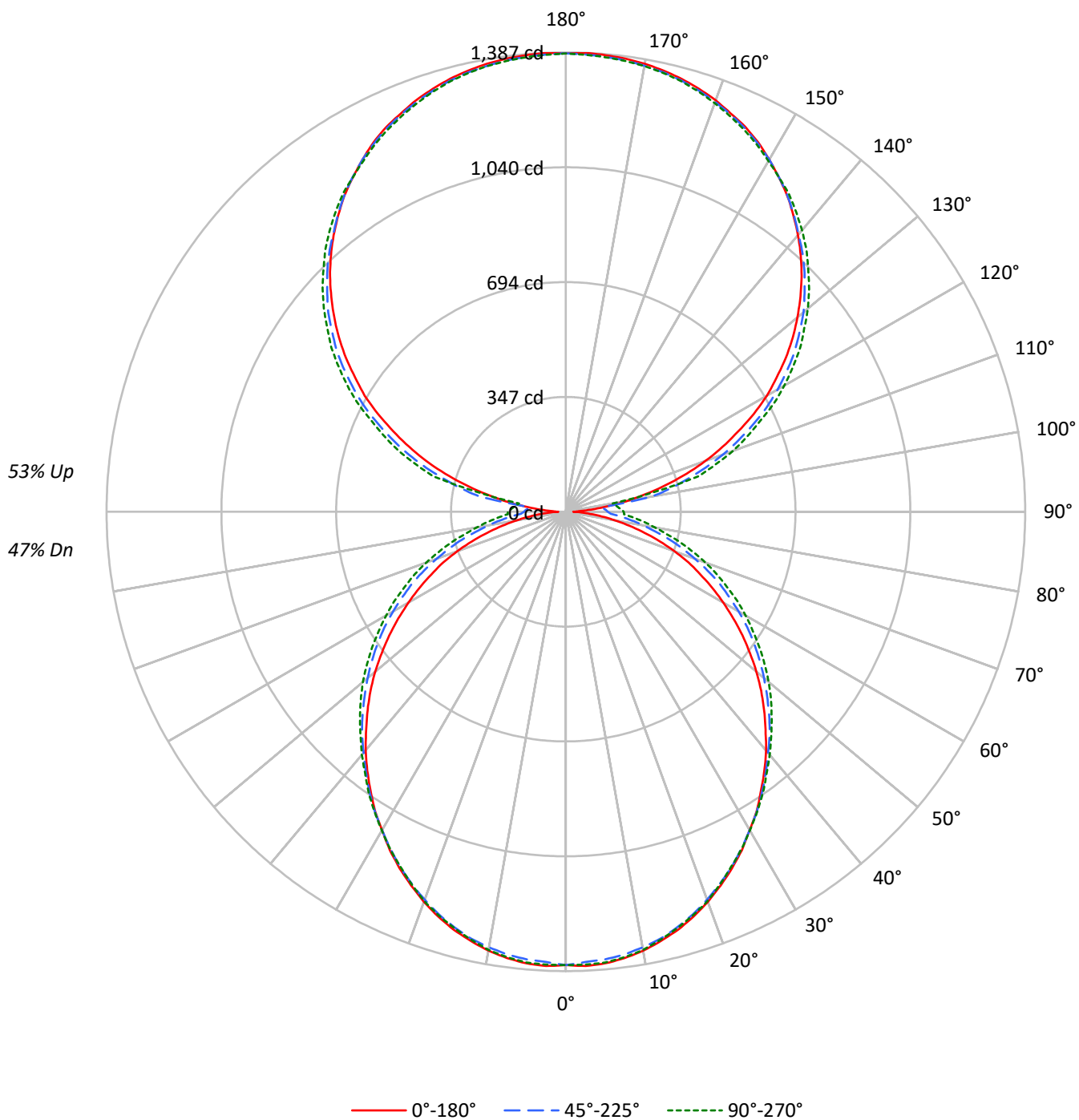
Lumens per Lamp: N/A
Luminaire Lumens: 8493.0 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 78.3
Input Voltage (V):
Input Current (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°	8769	8769	8769
5°	8784	8585	8606
10°	8718	8411	8387
15°	8612	8207	8116
20°	8468	7961	7847
25°	8299	7699	7522
30°	8093	7414	7227
35°	7902	7150	6954
40°	7705	6873	6679
45°	7485	6633	6432
50°	7273	6372	6210
55°	7019	6122	5951
60°	6741	5839	5686
65°	6449	5541	5386
70°	6116	5140	5076
75°	5590	4744	4697
80°	4899	4264	4276
85°	4220	3880	4055

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7485 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.5	1.5
10°-20°	367.7	4.3
20°-30°	546.7	6.4
30°-40°	647.5	7.6
40°-50°	669.4	7.9
50°-60°	616.7	7.3
60°-70°	498.5	5.9
70°-80°	333.6	3.9
80°-90°	174.5	2.1
90°-100°	144.1	1.7
100°-110°	383.9	4.5
110°-120°	610.4	7.2
120°-130°	749.1	8.8
130°-140°	788.3	9.3
140°-150°	731.1	8.6
150°-160°	589.5	6.9
160°-170°	381.2	4.5
170°-180°	131.5	1.5
0°-30°	1043.9	12.3
0°-40°	1691.5	19.9
0°-60°	2977.5	35.1
0°-90°	3984.0	46.9
90°-120°	1138.3	13.4
90°-150°	3406.8	40.1
90°-180°	4509.0	53.1
0°-180°	8493.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1369	1369	1369	1369	1369	
5°	1369	1366	1357	1367	1366	130
15°	1307	1308	1299	1307	1302	368
25°	1188	1192	1184	1189	1182	547
35°	1028	1037	1033	1037	1037	643
45°	847	862	868	878	879	653
55°	651	672	694	708	714	582
65°	448	479	511	531	537	445
75°	247	282	325	352	358	262
85°	74	118	165	195	205	77
90°	22	74	126	162	175	18
95°	76	108	114	149	158	85
105°	314	339	380	406	415	332
115°	574	589	625	645	647	569
125°	811	816	843	861	864	724
135°	1007	1012	1019	1035	1035	776
145°	1166	1166	1166	1174	1173	729
155°	1282	1276	1278	1281	1273	591
165°	1353	1347	1348	1354	1346	382
175°	1384	1378	1379	1387	1378	132
180°	1384	1384	1384	1384	1384	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1372.7	1370.0	1360.7	1370.0	1368.7
5°	1368.7	1366.0	1356.6	1367.4	1366.0
7.5°	1359.3	1358.0	1348.6	1358.0	1356.6
10°	1345.9	1345.9	1335.2	1344.5	1343.2
12.5°	1327.1	1328.4	1320.4	1327.1	1323.1
15°	1307.0	1308.3	1298.9	1307.0	1301.6
17.5°	1281.5	1284.2	1274.8	1281.5	1277.5
20°	1253.3	1256.0	1246.6	1250.6	1250.6
22.5°	1221.1	1226.5	1215.7	1221.1	1217.1
25°	1187.6	1191.6	1183.5	1188.9	1182.2
27.5°	1151.3	1156.7	1147.3	1151.3	1148.6
30°	1109.7	1117.8	1109.7	1112.4	1111.1
32.5°	1072.2	1078.9	1073.5	1076.2	1074.8
35°	1027.9	1037.3	1033.2	1037.3	1037.3
37.5°	984.9	993.0	991.6	997.0	995.7
40°	940.6	951.4	950.0	955.4	958.1
42.5°	892.3	907.1	911.1	917.8	917.8
45°	846.7	861.5	868.2	877.6	878.9
47.5°	799.8	813.2	823.9	837.3	840.0
50°	751.4	766.2	781.0	795.7	799.8
52.5°	700.5	719.2	738.0	754.1	756.8
55°	650.8	672.3	693.7	708.5	713.9
57.5°	599.8	625.3	649.5	665.6	669.6
60°	548.8	575.7	602.5	622.6	626.7
62.5°	499.2	526.0	555.5	578.3	583.7
65°	448.2	479.0	511.3	531.4	536.7
67.5°	401.2	430.7	462.9	487.1	493.8
70°	348.9	379.7	414.6	440.1	448.2
72.5°	297.9	330.1	369.0	397.2	402.6
75°	246.9	281.8	324.7	351.6	358.3
77.5°	197.3	237.5	277.8	307.3	312.7
80°	151.6	191.9	237.5	267.0	272.4
82.5°	110.0	153.0	199.9	228.1	238.9
85°	73.8	118.1	165.0	194.6	205.3
87.5°	47.0	89.9	135.5	166.4	175.8
90°	22.5	73.6	126.4	162.4	174.9
92.5°	38.3	68.0	121.1	155.7	166.2
95°	75.9	107.7	114.4	149.0	158.4
97.5°	125.9	164.2	111.1	141.3	151.7
100°	186.1	217.3	264.4	139.7	143.6
102.5°	247.3	276.9	320.5	349.4	271.3
105°	313.7	339.2	379.5	406.3	414.7
107.5°	382.1	400.9	441.8	469.7	473.6
110°	448.5	464.6	504.2	526.6	537.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	512.1	527.2	564.5	584.6	591.8
115°	574.4	588.8	624.7	644.8	646.7
117.5°	639.6	646.3	684.1	700.7	708.0
120°	701.2	704.2	738.1	758.9	761.9
122.5°	754.3	760.7	791.2	810.7	812.6
125°	810.7	816.5	843.4	860.7	864.3
127.5°	863.7	867.5	889.3	907.3	907.2
130°	912.9	916.7	936.6	952.3	953.8
132.5°	960.8	967.0	977.3	996.1	996.4
135°	1007.0	1011.8	1019.1	1034.6	1035.1
137.5°	1050.1	1054.8	1058.2	1074.3	1074.6
140°	1090.7	1092.8	1093.2	1109.9	1109.2
142.5°	1128.7	1128.4	1130.5	1142.6	1141.7
145°	1165.6	1166.4	1166.4	1174.1	1173.4
147.5°	1197.2	1197.2	1198.2	1201.9	1197.4
150°	1227.9	1225.9	1227.9	1230.0	1223.1
152.5°	1257.7	1252.6	1254.6	1256.7	1249.5
155°	1282.3	1276.2	1278.2	1281.3	1273.1
157.5°	1301.8	1298.7	1298.7	1301.8	1293.6
160°	1322.3	1316.2	1317.2	1321.3	1313.1
162.5°	1338.7	1332.6	1333.6	1339.8	1330.5
165°	1353.1	1346.9	1348.0	1354.1	1345.9
167.5°	1364.4	1358.2	1359.2	1366.4	1357.2
170°	1373.6	1366.4	1367.5	1375.7	1366.4
172.5°	1379.8	1372.6	1374.6	1381.8	1372.6
175°	1383.9	1377.7	1378.7	1386.9	1377.7
177.5°	1386.9	1380.8	1381.8	1389.0	1380.8
180°	1383.9	1383.9	1383.9	1383.9	1383.9

(END OF REPORT)