

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: P1034962

Luminaire Tested: S125DIW-B1090D1050UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034962
REPORT IS A COMBINATION OF REPORTS P1002774 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-F1
Description: Define 5 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

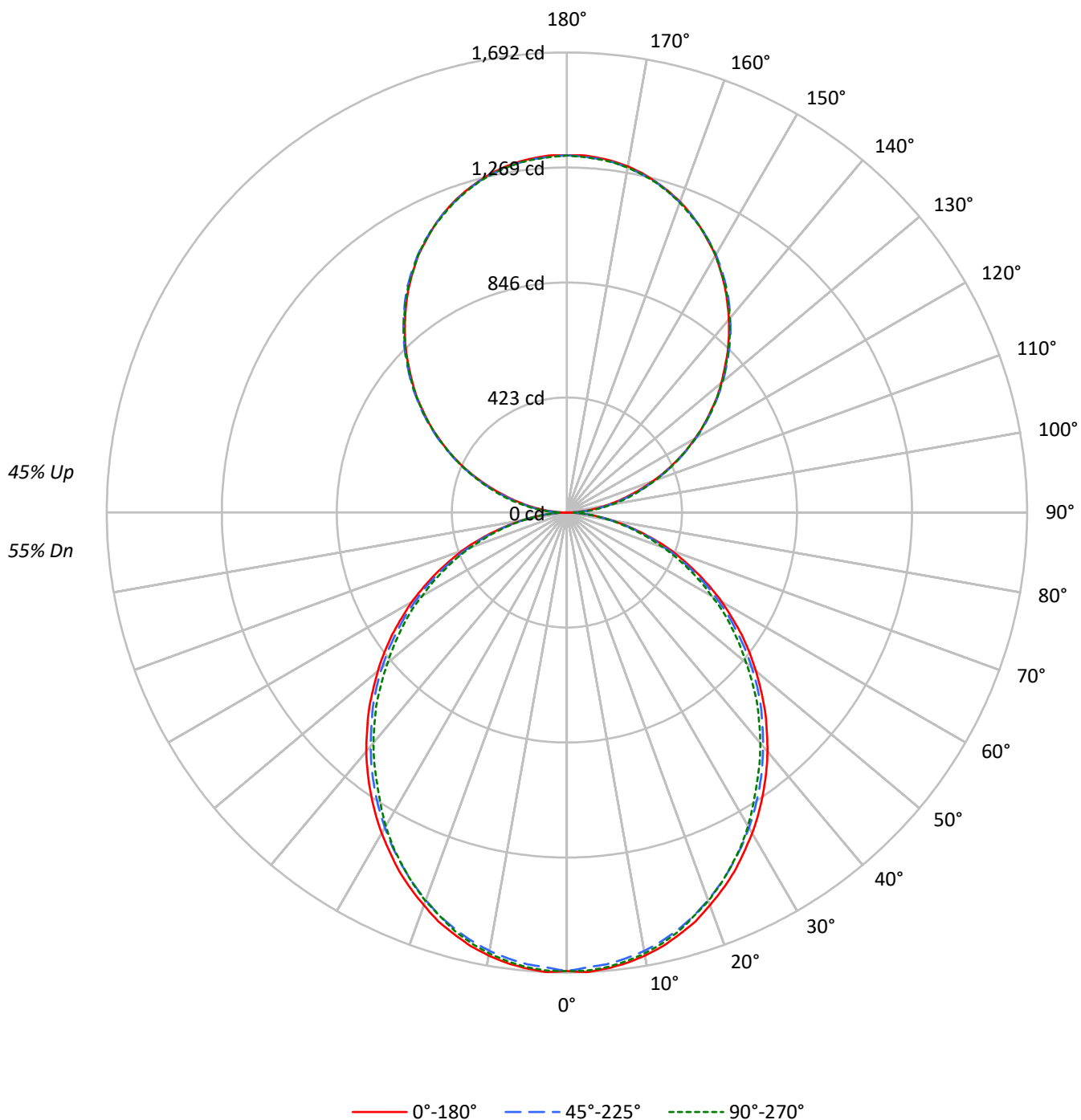
Lumens per Lamp: N/A
Luminaire Lumens: 8057.0 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60
1	99	94	90	87	91	88	84	81	75	73	70	64	62	60	53	52	51
2	90	82	76	71	83	77	71	67	66	62	58	56	53	50	47	45	43
3	82	72	65	59	76	67	61	56	58	53	49	49	46	43	41	39	36
4	75	64	56	50	69	60	53	47	52	46	42	44	40	36	37	34	31
5	69	57	49	43	64	53	46	40	46	40	36	40	35	32	33	30	27
6	63	51	43	37	59	48	41	35	42	36	31	36	31	28	30	27	24
7	59	46	38	33	54	43	36	31	38	32	28	33	28	24	28	24	21
8	54	42	34	29	50	39	32	27	34	29	25	30	25	22	25	22	19
9	51	38	31	26	47	36	29	24	32	26	22	27	23	20	23	20	17
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10807	10807	10807
5°	10807	10556	10576
10°	10717	10314	10281
15°	10577	10024	9935
20°	10387	9689	9537
25°	10183	9322	9111
30°	9936	8941	8662
35°	9673	8542	8159
40°	9401	8119	7711
45°	9107	7707	7237
50°	8783	7240	6683
55°	8462	6724	6174
60°	8081	6181	5582
65°	7623	5553	4969
70°	7157	4830	4262
75°	6376	3977	3446
80°	5432	2971	2535
85°	4197	1756	1397

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9107 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	2.0
10°-20°	449.6	5.6
20°-30°	663.7	8.2
30°-40°	774.4	9.6
40°-50°	777.7	9.7
50°-60°	682.7	8.5
60°-70°	508.5	6.3
70°-80°	290.4	3.6
80°-90°	85.9	1.1
90°-100°	87.3	1.1
100°-110°	259.4	3.2
110°-120°	440.0	5.5
120°-130°	579.2	7.2
130°-140°	649.0	8.1
140°-150°	636.2	7.9
150°-160°	534.4	6.6
160°-170°	355.2	4.4
170°-180°	124.3	1.5
0°-30°	1272.4	15.8
0°-40°	2046.8	25.4
0°-60°	3507.2	43.5
0°-90°	4392.0	54.5
90°-120°	786.7	9.8
90°-150°	2651.1	32.9
90°-180°	3665.0	45.5
0°-180°	8057.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1687	1687	1687	1687	1687	
5°	1684	1681	1668	1680	1679	160
15°	1605	1601	1587	1593	1593	453
25°	1457	1450	1433	1436	1432	670
35°	1258	1253	1234	1228	1217	787
45°	1030	1025	1009	993	989	794
55°	785	781	762	750	741	700
65°	530	527	512	500	495	525
75°	282	279	272	268	263	300
85°	73	75	75	73	71	80
90°	1	9	16	22	24	9
95°	66	68	79	86	88	69
105°	233	238	244	250	253	248
115°	440	444	447	446	444	436
125°	643	649	650	648	647	576
135°	836	842	843	843	839	644
145°	1013	1017	1020	1020	1017	633
155°	1159	1159	1160	1164	1159	534
165°	1260	1258	1259	1263	1257	356
175°	1310	1306	1306	1312	1305	125
180°	1313	1313	1313	1313	1313	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1686.7	1686.7	1686.7	1686.7	1686.7
2.5°	1692.0	1688.0	1674.7	1688.0	1686.7
5°	1684.0	1681.3	1668.0	1680.0	1678.7
7.5°	1672.0	1669.3	1654.6	1666.7	1665.3
10°	1654.6	1652.0	1637.3	1648.0	1646.6
12.5°	1633.3	1628.0	1614.6	1622.6	1622.6
15°	1605.3	1601.3	1586.6	1593.3	1593.3
17.5°	1575.9	1569.2	1554.6	1562.6	1555.9
20°	1537.2	1534.6	1517.2	1526.5	1519.9
22.5°	1498.5	1493.2	1477.2	1482.5	1478.5
25°	1457.2	1450.5	1433.1	1435.8	1431.8
27.5°	1409.1	1405.1	1387.8	1389.1	1385.1
30°	1362.4	1358.4	1338.4	1335.7	1331.7
32.5°	1311.7	1305.0	1287.7	1282.4	1274.3
35°	1258.3	1253.0	1234.3	1227.6	1217.0
37.5°	1203.6	1197.0	1179.6	1170.3	1163.6
40°	1147.6	1140.9	1122.2	1110.2	1106.2
42.5°	1087.5	1082.2	1063.5	1052.8	1046.2
45°	1030.2	1024.8	1008.8	992.8	988.8
47.5°	967.4	968.8	948.8	932.7	923.4
50°	907.4	903.4	887.4	870.0	860.7
52.5°	846.0	843.3	826.0	811.3	800.6
55°	784.6	780.6	761.9	749.9	740.6
57.5°	719.2	717.9	701.9	685.9	681.9
60°	657.9	652.5	637.8	624.5	615.2
62.5°	593.8	589.8	577.8	563.1	556.4
65°	529.8	527.1	512.4	500.4	495.1
67.5°	467.0	461.7	451.0	440.4	437.7
70°	408.3	401.7	389.6	381.6	376.3
72.5°	344.3	340.3	333.6	324.3	318.9
75°	281.6	278.9	272.2	268.2	262.9
77.5°	222.8	221.5	217.5	214.8	210.8
80°	168.1	168.1	165.5	164.1	161.5
82.5°	120.1	117.4	117.4	114.8	114.8
85°	73.4	74.7	74.7	73.4	70.7
87.5°	36.0	36.0	34.7	34.7	32.0
90°	1.0	9.2	16.4	21.5	24.5
92.5°	30.7	35.8	45.0	52.1	54.2
95°	66.4	68.5	78.7	85.8	87.9
97.5°	102.2	103.2	117.5	123.7	124.7
100°	143.1	143.1	156.4	165.6	167.6
102.5°	187.0	192.1	197.2	207.5	210.5
105°	233.0	238.1	244.2	250.4	253.4
107.5°	283.1	288.2	293.3	296.4	296.4
110°	335.2	340.3	343.4	346.4	345.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	388.3	390.4	394.5	395.5	393.4
115°	440.4	444.5	446.6	445.6	444.5
117.5°	493.6	494.6	496.7	497.7	493.6
120°	542.6	547.8	548.8	548.8	544.7
122.5°	595.8	596.8	599.9	598.8	595.8
125°	642.8	648.9	649.9	647.9	646.9
127.5°	694.9	698.0	699.0	698.0	695.9
130°	740.9	746.0	748.0	747.0	745.0
132.5°	786.9	796.1	795.1	794.0	791.0
135°	835.9	842.1	843.1	843.1	839.0
137.5°	881.9	888.1	890.1	891.1	886.0
140°	925.9	931.0	934.0	936.1	931.0
142.5°	969.8	973.9	978.0	979.0	973.9
145°	1012.7	1016.8	1019.9	1019.9	1016.8
147.5°	1052.6	1055.6	1057.7	1060.8	1052.6
150°	1092.4	1091.4	1095.5	1095.5	1093.5
152.5°	1125.1	1127.2	1128.2	1131.3	1127.2
155°	1158.9	1158.9	1159.9	1164.0	1158.9
157.5°	1189.5	1187.5	1188.5	1192.6	1185.4
160°	1216.1	1213.0	1214.0	1218.1	1213.0
162.5°	1239.6	1237.5	1237.5	1242.7	1236.5
165°	1260.0	1258.0	1259.0	1263.1	1257.0
167.5°	1278.4	1274.3	1274.3	1280.5	1274.3
170°	1292.7	1288.6	1288.6	1294.8	1287.6
172.5°	1303.0	1298.9	1298.9	1305.0	1298.9
175°	1310.1	1306.0	1306.0	1312.1	1305.0
177.5°	1315.2	1311.1	1310.1	1316.2	1309.1
180°	1313.2	1313.2	1313.2	1313.2	1313.2

(END OF REPORT)