

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: P1035547

Luminaire Tested: S125DIW-B850D1050UB40-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035547
REPORT IS A COMBINATION OF REPORTS P1004090 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B850D1050UB40-4F0-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

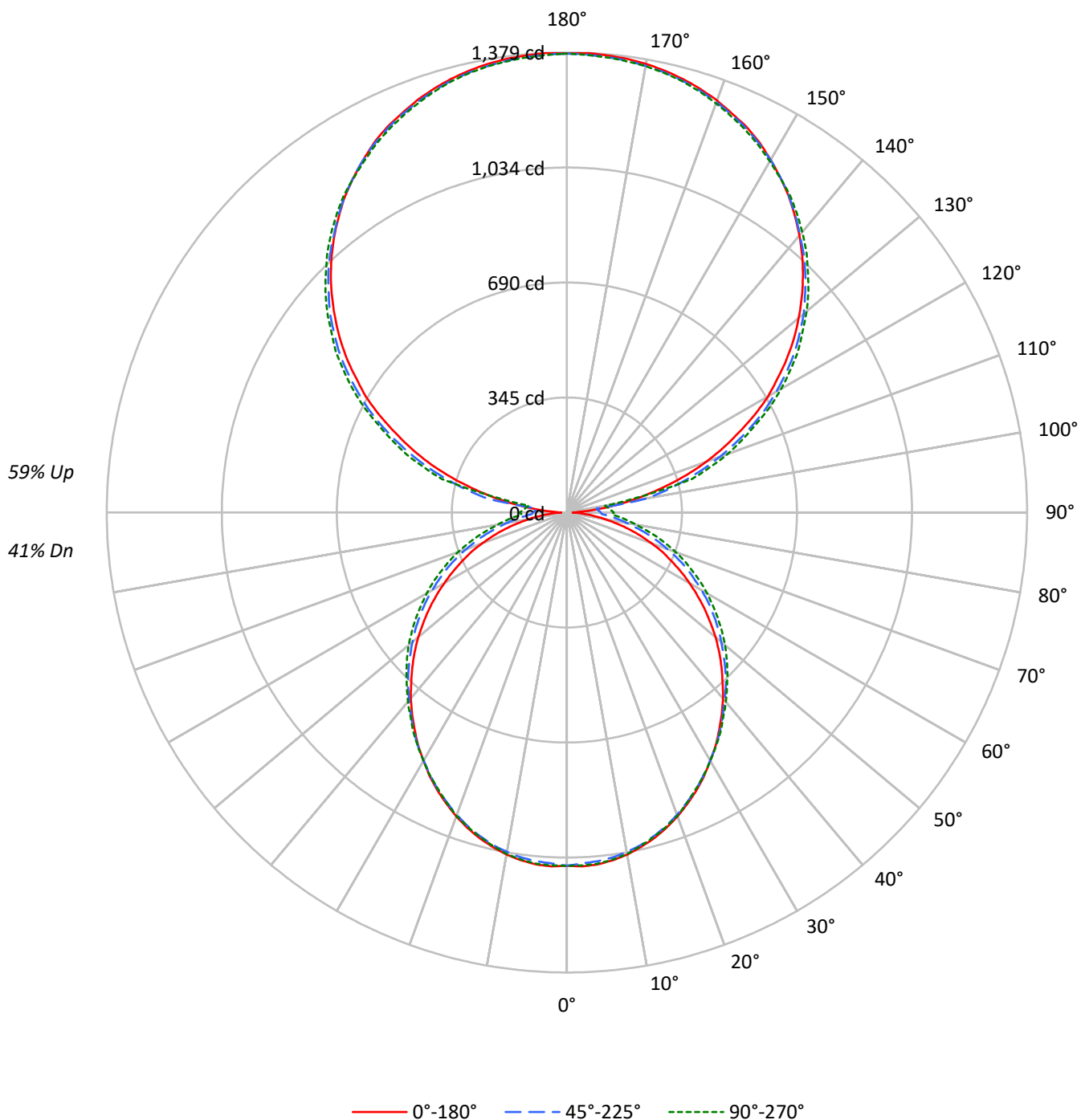
Lumens per Lamp: N/A
Luminaire Lumens: 7508.0 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 67.4
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

TEST NUMBER: P1035547

CATALOG NUMBER: S125DIW-B850D1050UB40-4F0-XX-W2A-D

Luminous Intensity Polar Plot



TEST NUMBER: P1035547

CATALOG NUMBER: S125DIW-B850D1050UB40-4F0-XX-W2A-D

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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48
1	95	91	87	83	87	83	79	76	68	65	63	54	52	51	41	40	39
2	86	79	72	67	78	72	66	62	59	55	52	47	44	42	36	34	33
3	79	69	62	56	71	63	57	51	52	47	43	41	38	35	32	29	27
4	72	61	53	47	65	56	49	43	46	41	37	37	33	30	28	26	23
5	66	54	46	40	60	50	42	37	41	35	31	33	29	26	25	23	20
6	61	48	40	34	55	44	37	32	37	31	27	30	26	22	23	20	18
7	56	44	36	30	51	40	33	28	33	28	24	27	23	20	21	18	16
8	52	39	32	26	47	36	29	25	30	25	21	25	21	18	19	16	14
9	48	36	29	23	44	33	26	22	28	22	19	23	19	16	18	15	13
10	45	33	26	21	41	30	24	20	25	20	17	21	17	14	16	14	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6784	6784	6784
5°	6795	6642	6658
10°	6744	6507	6488
15°	6662	6348	6278
20°	6551	6158	6071
25°	6420	5956	5819
30°	6261	5735	5590
35°	6112	5531	5379
40°	5961	5317	5167
45°	5790	5131	4976
50°	5627	4929	4804
55°	5430	4737	4603
60°	5215	4517	4398
65°	4989	4286	4167
70°	4731	3977	3926
75°	4325	3670	3633
80°	3791	3298	3308
85°	3265	3003	3137

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5790 cd/sqm

TEST NUMBER: P1035547

CATALOG NUMBER: S125DIW-B850D1050UB40-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	1.3
10°-20°	284.4	3.8
20°-30°	422.9	5.6
30°-40°	500.9	6.7
40°-50°	517.8	6.9
50°-60°	477.0	6.4
60°-70°	385.6	5.1
70°-80°	258.0	3.4
80°-90°	135.4	1.8
90°-100°	121.8	1.6
100°-110°	365.9	4.9
110°-120°	596.2	7.9
120°-130°	738.7	9.8
130°-140°	781.1	10.4
140°-150°	726.3	9.7
150°-160°	586.0	7.8
160°-170°	379.0	5.0
170°-180°	130.7	1.7
0°-30°	807.6	10.8
0°-40°	1308.5	17.4
0°-60°	2303.4	30.7
0°-90°	3082.5	41.1
90°-120°	1083.9	14.4
90°-150°	3329.9	44.4
90°-180°	4426.0	59.0
0°-180°	7508.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1059	1059	1059	1059	1059	
5°	1059	1057	1050	1058	1057	100
15°	1011	1012	1005	1011	1007	285
25°	919	922	916	920	914	423
35°	795	802	799	802	802	498
45°	655	666	672	679	680	505
55°	504	520	537	548	552	450
65°	347	371	396	411	415	344
75°	191	218	251	272	277	202
85°	57	91	128	150	159	60
90°	18	59	101	130	141	14
95°	72	96	92	120	127	82
105°	309	330	361	382	388	328
115°	569	582	610	624	624	564
125°	805	811	832	844	846	719
135°	1000	1006	1011	1022	1021	771
145°	1158	1160	1160	1166	1164	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	

TEST NUMBER: P1035547

CATALOG NUMBER: S125DIW-B850D1050UB40-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1058.8	1058.8	1058.8	1058.8	1058.8
2.5°	1061.9	1059.8	1052.6	1059.8	1058.8
5°	1058.8	1056.7	1049.5	1057.8	1056.7
7.5°	1051.5	1050.5	1043.2	1050.5	1049.5
10°	1041.2	1041.2	1032.9	1040.1	1039.1
12.5°	1026.6	1027.7	1021.4	1026.6	1023.5
15°	1011.1	1012.1	1004.8	1011.1	1006.9
17.5°	991.3	993.4	986.1	991.3	988.2
20°	969.5	971.6	964.3	967.5	967.5
22.5°	944.6	948.8	940.5	944.6	941.5
25°	918.7	921.8	915.6	919.7	914.5
27.5°	890.6	894.8	887.5	890.6	888.6
30°	858.5	864.7	858.5	860.5	859.5
32.5°	829.4	834.6	830.4	832.5	831.5
35°	795.1	802.4	799.3	802.4	802.4
37.5°	761.9	768.2	767.1	771.3	770.2
40°	727.7	736.0	734.9	739.1	741.2
42.5°	690.3	701.7	704.8	710.0	710.0
45°	655.0	666.4	671.6	678.9	679.9
47.5°	618.7	629.1	637.4	647.7	649.8
50°	581.3	592.7	604.1	615.6	618.7
52.5°	541.9	556.4	570.9	583.4	585.5
55°	503.5	520.1	536.7	548.1	552.2
57.5°	464.0	483.7	502.4	514.9	518.0
60°	424.6	445.3	466.1	481.7	484.8
62.5°	386.2	406.9	429.8	447.4	451.6
65°	346.7	370.6	395.5	411.1	415.2
67.5°	310.4	333.2	358.1	376.8	382.0
70°	269.9	293.8	320.8	340.5	346.7
72.5°	230.4	255.4	285.5	307.3	311.4
75°	191.0	218.0	251.2	272.0	277.2
77.5°	152.6	183.7	214.9	237.7	241.9
80°	117.3	148.4	183.7	206.6	210.7
82.5°	85.1	118.3	154.7	176.5	184.8
85°	57.1	91.3	127.7	150.5	158.8
87.5°	36.3	69.5	104.8	128.7	136.0
90°	17.6	59.0	101.4	130.4	140.8
92.5°	33.9	54.8	97.3	125.2	133.5
95°	71.6	95.6	92.1	120.0	127.3
97.5°	121.6	152.6	90.0	113.8	122.1
100°	181.7	206.6	243.8	113.7	115.9
102.5°	242.9	266.7	300.9	323.7	244.3
105°	309.1	329.9	361.0	381.8	388.0
107.5°	377.5	392.0	424.1	445.9	448.1
110°	443.8	456.2	487.3	504.0	512.3

TEST NUMBER: P1035547

CATALOG NUMBER: S125DIW-B850D1050UB40-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	507.0	519.4	548.4	563.0	568.3
115°	569.1	581.5	609.6	624.2	624.3
117.5°	634.4	639.6	669.6	681.2	686.3
120°	695.6	697.7	724.7	740.2	741.4
122.5°	748.7	754.8	778.6	793.1	793.3
125°	804.8	810.8	831.6	844.1	846.3
127.5°	857.7	861.8	878.4	891.9	890.0
130°	906.7	910.8	926.3	937.7	937.8
132.5°	954.6	960.7	968.1	982.6	981.6
135°	1000.5	1005.5	1010.8	1022.2	1021.3
137.5°	1043.3	1048.4	1050.5	1062.9	1062.0
140°	1084.0	1086.1	1086.2	1099.6	1097.6
142.5°	1121.8	1121.8	1123.8	1133.1	1131.2
145°	1158.5	1159.5	1159.5	1165.8	1163.7
147.5°	1190.1	1190.1	1191.1	1194.3	1189.2
150°	1220.7	1218.7	1220.7	1222.8	1215.6
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)