

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: P1034620

Luminaire Tested: S125DIW-B850D1050UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034620
REPORT IS A COMBINATION OF REPORTS P1004057 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B850D1050UB2750-4F0-XX-W2A-D_2700K
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

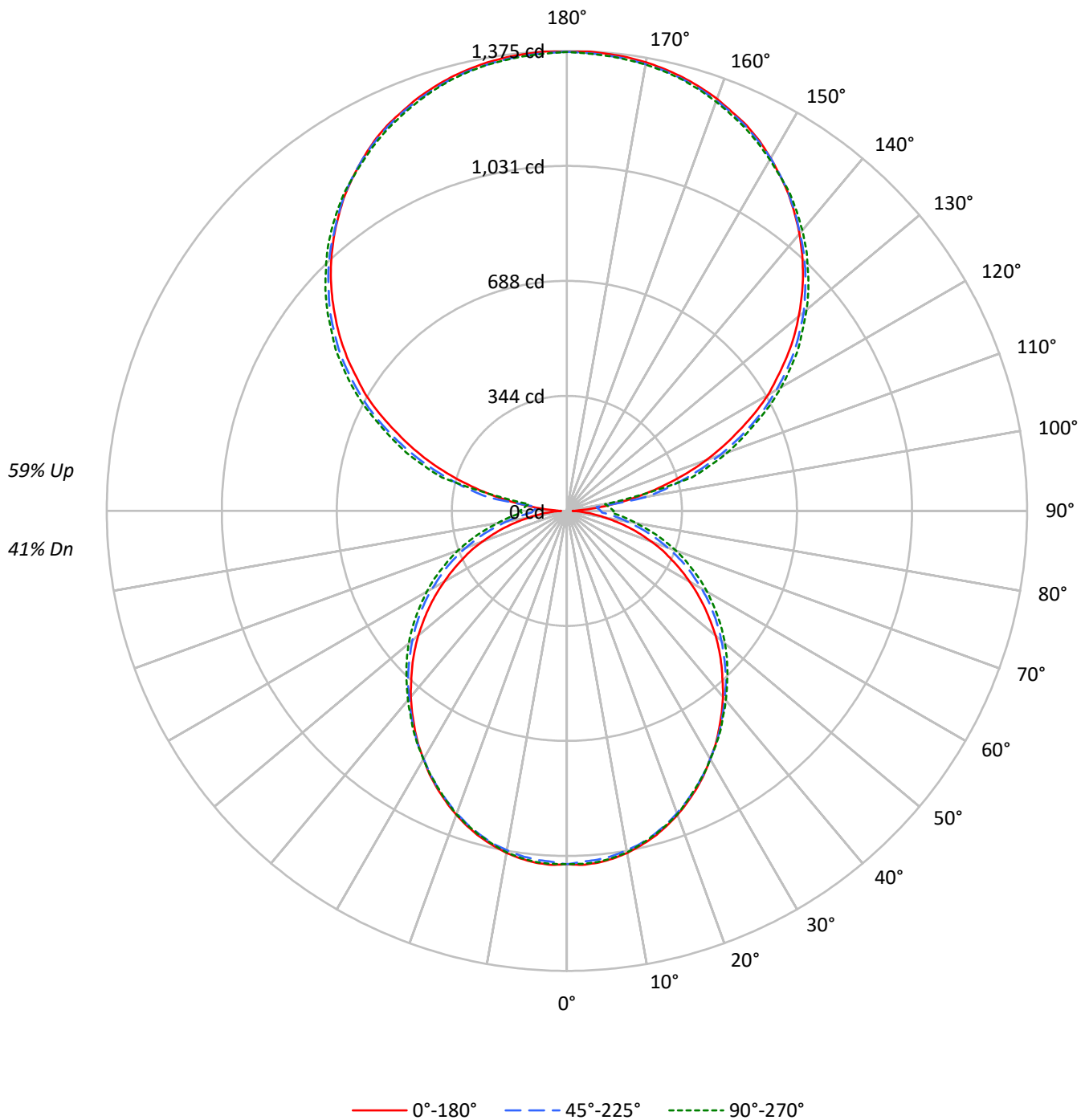
Lumens per Lamp: N/A
Luminaire Lumens: 7487.0 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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	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°	6765	6765	6765
5°	6776	6623	6639
10°	6725	6488	6470
15°	6644	6331	6261
20°	6533	6141	6054
25°	6402	5939	5803
30°	6244	5719	5575
35°	6096	5516	5365
40°	5945	5302	5152
45°	5774	5117	4963
50°	5611	4916	4791
55°	5415	4723	4591
60°	5200	4505	4386
65°	4976	4274	4156
70°	4719	3966	3916
75°	4313	3660	3623
80°	3781	3289	3298
85°	3253	2993	3129

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5774 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	1.3
10°-20°	283.6	3.8
20°-30°	421.8	5.6
30°-40°	499.5	6.7
40°-50°	516.4	6.9
50°-60°	475.7	6.4
60°-70°	384.6	5.1
70°-80°	257.3	3.4
80°-90°	135.0	1.8
90°-100°	121.5	1.6
100°-110°	364.8	4.9
110°-120°	594.5	7.9
120°-130°	736.6	9.8
130°-140°	778.9	10.4
140°-150°	724.2	9.7
150°-160°	584.3	7.8
160°-170°	377.9	5.0
170°-180°	130.3	1.7
0°-30°	805.4	10.8
0°-40°	1304.9	17.4
0°-60°	2297.1	30.7
0°-90°	3074.0	41.1
90°-120°	1080.8	14.4
90°-150°	3320.4	44.3
90°-180°	4413.0	58.9
0°-180°	7487.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1056	1056	1056	1056	1056	
5°	1056	1054	1047	1055	1054	100
15°	1008	1009	1002	1008	1004	284
25°	916	919	913	917	912	422
35°	793	800	797	800	800	496
45°	653	665	670	677	678	504
55°	502	519	535	547	551	449
65°	346	370	394	410	414	343
75°	190	217	250	271	276	202
85°	57	91	127	150	158	59
90°	18	59	101	130	140	14
95°	72	95	92	120	127	82
105°	308	329	360	381	387	327
115°	568	580	608	622	622	563
125°	802	808	829	842	844	717
135°	998	1003	1008	1019	1018	769
145°	1155	1156	1156	1162	1160	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°	1055.9	1055.9	1055.9	1055.9	1055.9
2.5°	1059.0	1056.9	1049.7	1056.9	1055.9
5°	1055.9	1053.8	1046.6	1054.9	1053.8
7.5°	1048.7	1047.6	1040.4	1047.6	1046.6
10°	1038.3	1038.3	1030.0	1037.3	1036.2
12.5°	1023.8	1024.8	1018.6	1023.8	1020.7
15°	1008.3	1009.3	1002.1	1008.3	1004.1
17.5°	988.6	990.7	983.4	988.6	985.5
20°	966.9	968.9	961.7	964.8	964.8
22.5°	942.0	946.2	937.9	942.0	938.9
25°	916.2	919.3	913.0	917.2	912.0
27.5°	888.2	892.3	885.1	888.2	886.1
30°	856.1	862.3	856.1	858.2	857.1
32.5°	827.1	832.3	828.2	830.2	829.2
35°	793.0	800.2	797.1	800.2	800.2
37.5°	759.8	766.0	765.0	769.2	768.1
40°	725.7	734.0	732.9	737.1	739.1
42.5°	688.4	699.8	702.9	708.1	708.1
45°	653.2	664.6	669.8	677.0	678.1
47.5°	617.0	627.3	635.6	646.0	648.0
50°	579.7	591.1	602.5	613.9	617.0
52.5°	540.4	554.9	569.4	581.8	583.9
55°	502.1	518.6	535.2	546.6	550.7
57.5°	462.7	482.4	501.0	513.5	516.6
60°	423.4	444.1	464.8	480.3	483.4
62.5°	385.1	405.8	428.6	446.2	450.3
65°	345.8	369.6	394.4	409.9	414.1
67.5°	309.5	332.3	357.1	375.8	381.0
70°	269.2	293.0	319.9	339.5	345.8
72.5°	229.8	254.7	284.7	306.4	310.6
75°	190.5	217.4	250.5	271.2	276.4
77.5°	152.2	183.2	214.3	237.1	241.2
80°	117.0	148.0	183.2	206.0	210.1
82.5°	84.9	118.0	154.2	176.0	184.3
85°	56.9	91.1	127.3	150.1	158.4
87.5°	36.2	69.4	104.6	128.4	135.6
90°	17.6	58.9	101.2	130.1	140.3
92.5°	33.8	54.7	97.0	124.9	133.2
95°	71.5	95.3	91.9	119.7	127.0
97.5°	121.2	152.2	89.7	113.5	121.8
100°	181.2	206.0	243.2	113.4	115.6
102.5°	242.3	265.9	300.1	322.8	243.6
105°	308.3	328.9	359.9	380.6	386.9
107.5°	376.4	390.9	423.0	444.7	446.8
110°	442.4	454.9	486.0	502.5	510.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	505.5	517.9	546.9	561.4	566.7
115°	567.5	579.9	607.8	622.4	622.5
117.5°	632.6	637.8	667.7	679.2	684.5
120°	693.7	695.7	722.6	738.2	739.3
122.5°	746.5	752.6	776.5	790.9	791.0
125°	802.4	808.5	829.2	841.7	843.8
127.5°	855.3	859.4	875.9	889.4	887.5
130°	904.1	908.2	923.7	935.1	935.2
132.5°	951.9	958.0	965.3	979.8	978.9
135°	997.7	1002.7	1007.9	1019.3	1018.4
137.5°	1040.4	1045.4	1047.5	1059.9	1059.0
140°	1081.0	1083.0	1083.1	1096.5	1094.5
142.5°	1118.6	1118.6	1120.6	1129.9	1128.0
145°	1155.2	1156.2	1156.2	1162.5	1160.5
147.5°	1186.7	1186.7	1187.8	1190.9	1185.8
150°	1217.3	1215.2	1217.3	1219.3	1212.2
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)