

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: P1034635

Luminaire Tested: S125DIW-B850D1340UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034635
REPORT IS A COMBINATION OF REPORTS P1004123 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B850D1340UB2750-4F0-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

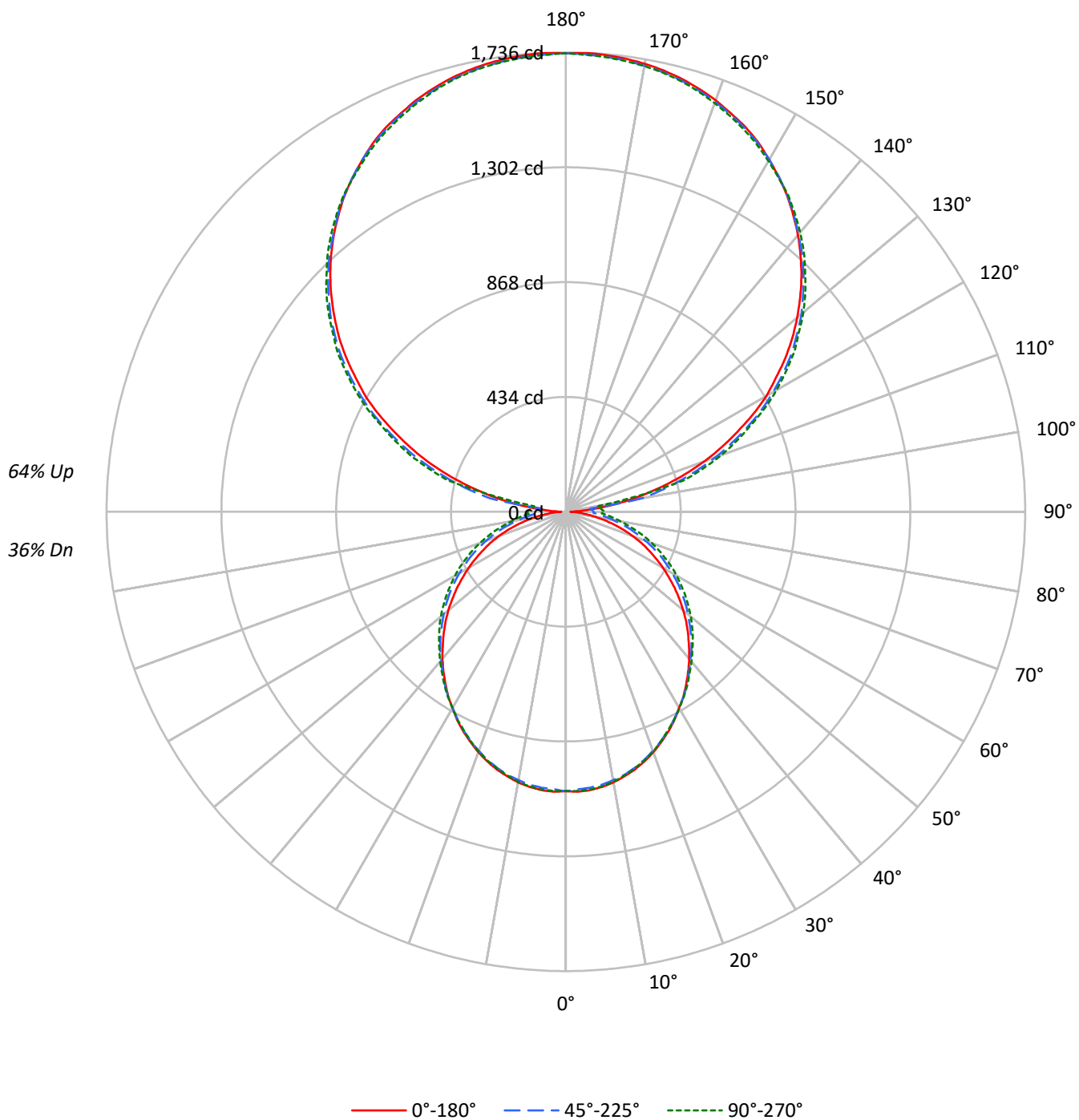
Lumens per Lamp: N/A
Luminaire Lumens: 8595.0 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 78
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	50	30	10
RCR																				
0	104	104	104	104	94	94	94	94	75	75	75	59	59	59	43	43	43			36
1	94	90	86	82	85	81	78	75	65	63	61	51	49	48	37	36	35			29
2	85	78	72	66	77	71	65	61	57	53	50	44	42	39	32	31	29			24
3	78	68	61	55	70	62	56	50	50	45	42	39	36	33	29	26	25			20
4	71	60	52	46	64	55	48	43	44	39	35	34	31	28	25	23	21			17
5	65	53	45	39	58	49	42	36	39	34	30	31	27	24	23	20	18			15
6	60	48	40	34	54	44	36	31	35	30	26	28	24	21	21	18	16			13
7	55	43	35	30	50	39	32	27	32	27	23	25	21	18	19	16	14			11
8	51	39	31	26	46	36	29	24	29	24	20	23	19	16	17	15	13			10
9	48	35	28	23	43	32	26	21	27	22	18	21	17	15	16	13	11			9
10	44	32	25	21	40	30	23	19	24	19	16	19	16	13	15	12	10			8

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	1.2
10°-20°	283.6	3.3
20°-30°	421.8	4.9
30°-40°	499.5	5.8
40°-50°	516.4	6.0
50°-60°	475.7	5.5
60°-70°	384.6	4.5
70°-80°	257.3	3.0
80°-90°	135.6	1.6
90°-100°	133.7	1.6
100°-110°	446.2	5.2
110°-120°	741.0	8.6
120°-130°	924.7	10.8
130°-140°	981.1	11.4
140°-150°	914.0	10.6
150°-160°	737.9	8.6
160°-170°	477.2	5.6
170°-180°	164.6	1.9
0°-30°	805.4	9.4
0°-40°	1304.9	15.2
0°-60°	2297.1	26.7
0°-90°	3074.6	35.8
90°-120°	1320.9	15.4
90°-150°	4140.8	48.2
90°-180°	5520.0	64.2
0°-180°	8595.0	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	61	105	136	147	15
95°	87	110	96	125	133	100
105°	387	409	440	460	466	410
115°	715	729	757	770	769	709
125°	1012	1020	1041	1052	1054	904
135°	1259	1266	1271	1282	1279	971
145°	1458	1460	1460	1467	1463	912
155°	1605	1598	1600	1604	1594	740
165°	1694	1686	1687	1695	1685	478
175°	1732	1725	1726	1736	1725	165
180°	1732	1732	1732	1732	1732	

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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°	17.9	61.3	105.4	135.7	146.7
92.5°	38.9	57.3	101.2	130.5	139.1
95°	86.7	109.7	96.1	125.3	132.6
97.5°	149.8	182.4	94.5	118.9	127.4
100°	225.9	251.4	289.7	120.1	121.2
102.5°	303.2	327.9	362.6	385.9	284.2
105°	386.8	408.6	439.6	460.3	466.3
107.5°	473.2	487.7	520.2	542.2	543.3
110°	556.8	569.3	600.9	616.6	625.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	636.4	649.7	678.9	692.3	697.1
115°	715.1	728.8	757.0	770.4	768.9
117.5°	797.5	802.7	833.7	843.6	848.3
120°	874.6	876.4	904.1	919.1	918.9
122.5°	941.5	949.1	973.2	987.1	985.6
125°	1012.2	1020.2	1040.9	1052.3	1053.6
127.5°	1079.2	1084.7	1101.0	1113.9	1109.8
130°	1140.9	1146.3	1162.1	1172.7	1171.4
132.5°	1201.5	1209.2	1215.7	1230.2	1228.0
135°	1259.3	1265.9	1270.6	1281.5	1279.0
137.5°	1313.2	1319.9	1321.5	1333.9	1331.6
140°	1364.8	1367.4	1367.2	1381.1	1377.5
142.5°	1412.3	1412.6	1415.2	1424.5	1421.0
145°	1458.5	1460.1	1460.1	1466.6	1463.0
147.5°	1498.6	1498.6	1499.9	1503.3	1496.3
150°	1537.2	1534.6	1537.2	1539.7	1530.5
152.5°	1574.4	1568.0	1570.5	1573.1	1564.1
155°	1605.2	1597.5	1600.1	1603.9	1593.7
157.5°	1629.6	1625.8	1625.8	1629.6	1619.3
160°	1655.3	1647.6	1648.9	1654.0	1643.7
162.5°	1675.9	1668.1	1669.4	1677.1	1665.6
165°	1693.8	1686.1	1687.4	1695.1	1684.8
167.5°	1708.0	1700.3	1701.5	1710.5	1699.0
170°	1719.5	1710.5	1711.8	1722.1	1710.5
172.5°	1727.2	1718.2	1720.8	1729.8	1718.2
175°	1732.4	1724.7	1725.9	1736.2	1724.7
177.5°	1736.2	1728.5	1729.8	1738.8	1728.5
180°	1732.4	1732.4	1732.4	1732.4	1732.4

(END OF REPORT)