

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: P1035576

Luminaire Tested: S125DIW-B850D1340UB40-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035576
REPORT IS A COMBINATION OF REPORTS P1004156 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B850D1340UB40-4F0-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

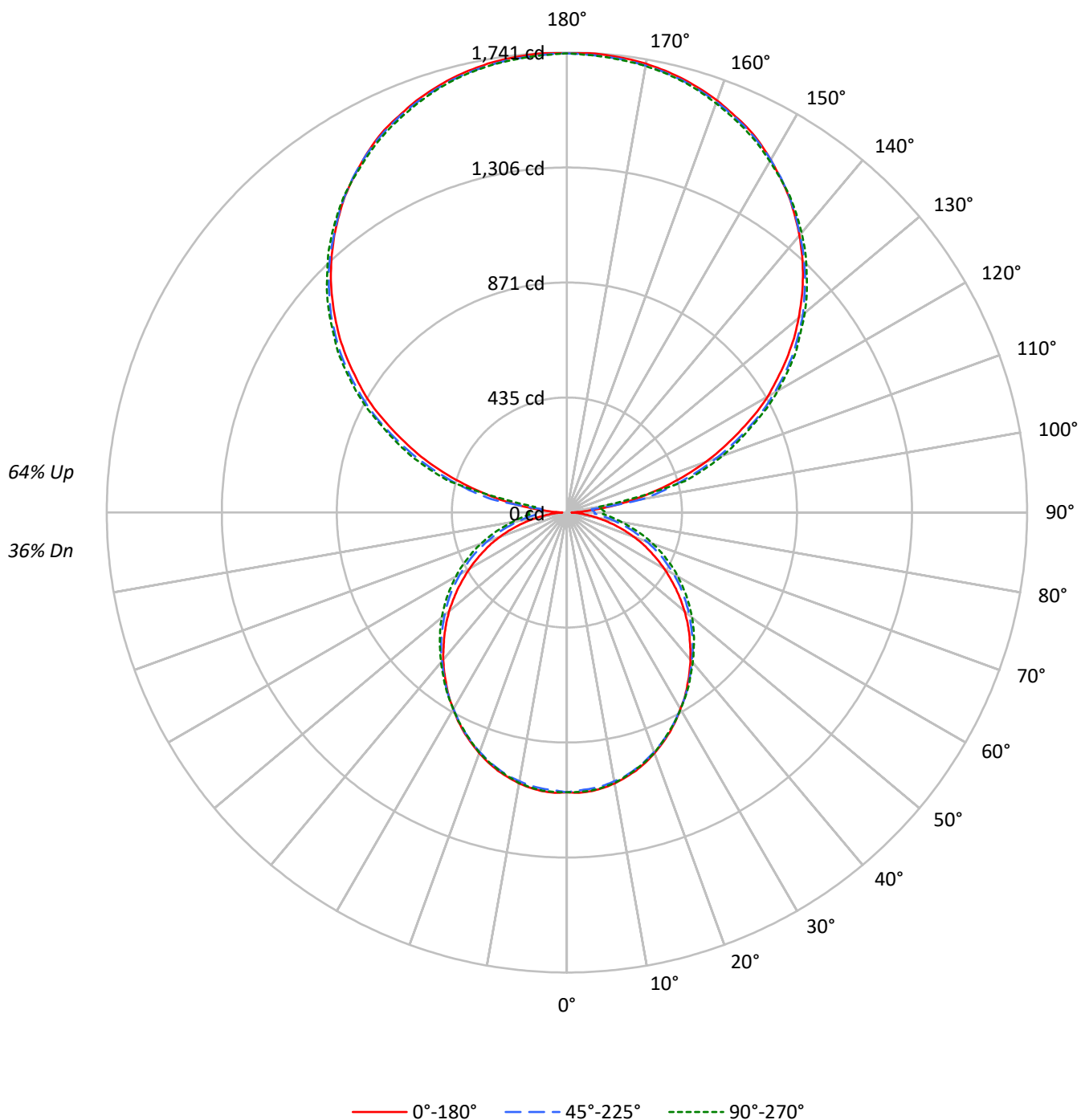
Lumens per Lamp: N/A
Luminaire Lumens: 8620.0 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	1.2
10°-20°	284.4	3.3
20°-30°	422.9	4.9
30°-40°	500.9	5.8
40°-50°	517.8	6.0
50°-60°	477.0	5.5
60°-70°	385.6	4.5
70°-80°	258.0	3.0
80°-90°	135.9	1.6
90°-100°	134.1	1.6
100°-110°	447.5	5.2
110°-120°	743.2	8.6
120°-130°	927.4	10.8
130°-140°	984.1	11.4
140°-150°	916.8	10.6
150°-160°	740.1	8.6
160°-170°	478.7	5.6
170°-180°	165.1	1.9
0°-30°	807.6	9.4
0°-40°	1308.5	15.2
0°-60°	2303.4	26.7
0°-90°	3083.0	35.8
90°-120°	1324.8	15.4
90°-150°	4153.1	48.2
90°-180°	5537.0	64.2
0°-180°	8620.0	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	61	106	136	147	15
95°	87	110	96	126	133	101
105°	388	410	441	462	468	411
115°	717	731	759	773	771	711
125°	1015	1023	1044	1056	1057	907
135°	1263	1270	1274	1285	1283	974
145°	1463	1464	1464	1471	1467	915
155°	1610	1602	1605	1609	1598	742
165°	1699	1691	1692	1700	1690	480
175°	1738	1730	1731	1741	1730	165
180°	1738	1738	1738	1738	1738	

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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°	17.9	61.4	105.7	136.0	147.2
92.5°	39.0	57.5	101.6	130.8	139.4
95°	86.9	110.1	96.4	125.6	132.9
97.5°	150.3	182.9	94.8	119.2	127.7
100°	226.5	252.2	290.5	120.4	121.5
102.5°	304.1	328.9	363.7	387.0	285.1
105°	388.0	409.8	440.9	461.7	467.6
107.5°	474.6	489.1	521.7	543.8	544.9
110°	558.6	571.0	602.7	618.5	627.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	638.4	651.6	680.9	694.4	699.2
115°	717.2	730.9	759.2	772.8	771.2
117.5°	799.9	805.1	836.2	846.1	850.8
120°	877.2	879.0	906.8	921.8	921.7
122.5°	944.5	951.9	976.0	990.0	988.6
125°	1015.3	1023.2	1044.0	1055.5	1056.8
127.5°	1082.5	1087.9	1104.2	1117.3	1113.1
130°	1144.3	1149.7	1165.5	1176.2	1174.9
132.5°	1205.1	1212.9	1219.4	1233.9	1231.6
135°	1263.1	1269.7	1274.4	1285.4	1282.8
137.5°	1317.2	1323.8	1325.4	1337.8	1335.6
140°	1368.9	1371.5	1371.3	1385.3	1381.6
142.5°	1416.6	1416.8	1419.4	1428.7	1425.2
145°	1462.9	1464.5	1464.5	1471.0	1467.4
147.5°	1503.1	1503.1	1504.4	1507.8	1500.9
150°	1541.8	1539.2	1541.8	1544.4	1535.1
152.5°	1579.1	1572.7	1575.3	1577.8	1568.8
155°	1610.0	1602.3	1604.9	1608.8	1598.5
157.5°	1634.5	1630.7	1630.7	1634.5	1624.2
160°	1660.3	1652.6	1653.8	1659.0	1648.7
162.5°	1680.9	1673.2	1674.4	1682.2	1670.6
165°	1698.9	1691.2	1692.5	1700.2	1689.9
167.5°	1713.1	1705.4	1706.6	1715.7	1704.1
170°	1724.7	1715.7	1717.0	1727.3	1715.7
172.5°	1732.4	1723.4	1726.0	1735.0	1723.4
175°	1737.6	1729.8	1731.1	1741.4	1729.8
177.5°	1741.4	1733.7	1735.0	1744.0	1733.7
180°	1737.6	1737.6	1737.6	1737.6	1737.6

(END OF REPORT)