

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: P1034410

Luminaire Tested: S125DIW-B1270D1340UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034410
REPORT IS A COMBINATION OF REPORTS P1003133 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1270D1340UB2750-4F0-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

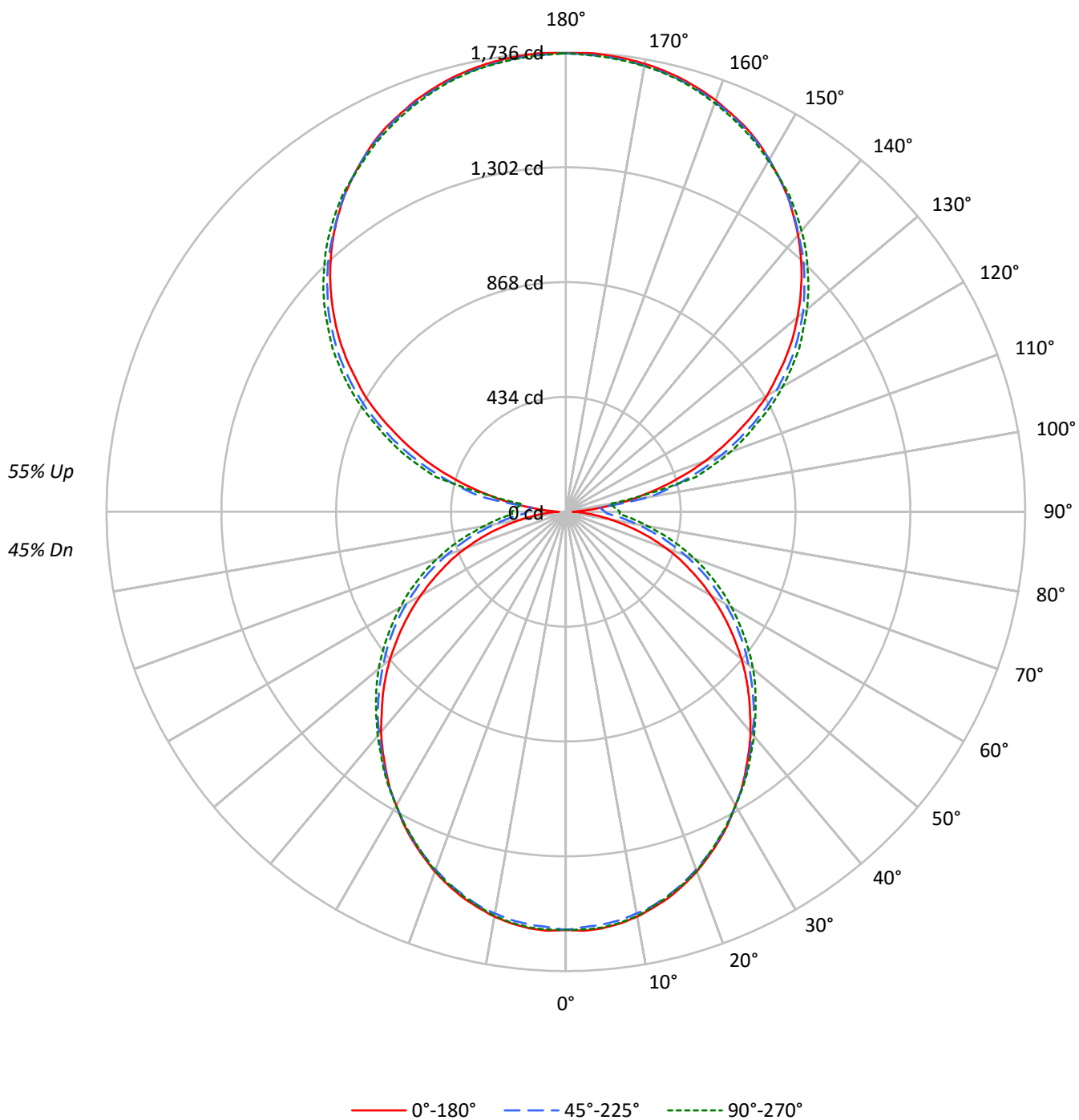
Lumens per Lamp: N/A
Luminaire Lumens: 10219.0 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 103.4
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	50	30	10
RCR																				
0	106	106	106	106	97	97	97	97	81	81	81	65	65	65	52	52	52			45
1	96	91	87	84	88	84	80	77	70	67	65	57	55	53	44	43	42			37
2	87	79	73	68	79	73	67	63	61	57	53	49	46	44	39	37	35			30
3	79	70	62	56	72	64	57	52	53	48	44	43	40	37	34	32	29			25
4	72	61	53	47	66	56	49	44	47	42	38	38	34	31	30	28	25			21
5	66	55	46	40	60	50	43	38	42	36	32	34	30	27	27	24	22			18
6	61	49	41	35	56	45	38	32	38	32	28	31	27	24	25	22	19			16
7	56	44	36	30	51	41	33	28	34	29	25	28	24	21	23	19	17			14
8	52	40	32	27	48	37	30	25	31	26	22	26	22	18	21	18	15			13
9	49	36	29	24	44	34	27	22	28	23	19	24	19	16	19	16	14			11
10	45	33	26	21	42	31	24	20	26	21	17	22	18	15	18	15	12			10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10124	10124	10124
5°	10140	9912	9936
10°	10065	9710	9682
15°	9942	9475	9370
20°	9776	9191	9059
25°	9581	8889	8684
30°	9344	8559	8343
35°	9122	8255	8028
40°	8897	7935	7711
45°	8641	7657	7426
50°	8397	7356	7169
55°	8103	7068	6870
60°	7782	6741	6564
65°	7445	6396	6219
70°	7061	5934	5859
75°	6453	5478	5421
80°	5658	4923	4937
85°	4871	4479	4682

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8641 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	1.5
10°-20°	424.5	4.2
20°-30°	631.2	6.2
30°-40°	747.5	7.3
40°-50°	772.8	7.6
50°-60°	711.9	7.0
60°-70°	575.5	5.6
70°-80°	385.1	3.8
80°-90°	201.6	2.0
90°-100°	170.9	1.7
100°-110°	473.6	4.6
110°-120°	759.4	7.4
120°-130°	935.0	9.2
130°-140°	985.7	9.6
140°-150°	914.9	9.0
150°-160°	737.9	7.2
160°-170°	477.2	4.7
170°-180°	164.6	1.6
0°-30°	1205.2	11.8
0°-40°	1952.7	19.1
0°-60°	3437.5	33.6
0°-90°	4599.7	45.0
90°-120°	1403.9	13.7
90°-150°	4239.5	41.5
90°-180°	5619.0	55.0
0°-180°	10219.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1580	1580	1580	1580	1580	
5°	1580	1577	1566	1579	1577	150
15°	1509	1510	1500	1509	1503	425
25°	1371	1376	1366	1373	1365	631
35°	1187	1198	1193	1198	1198	743
45°	978	995	1002	1013	1015	754
55°	751	776	801	818	824	672
65°	517	553	590	614	620	513
75°	285	325	375	406	414	302
85°	85	136	190	225	237	89
90°	26	86	148	190	204	21
95°	93	130	134	174	185	106
105°	391	421	468	499	508	415
115°	718	735	777	800	801	712
125°	1014	1022	1053	1072	1076	906
135°	1260	1266	1275	1292	1292	972
145°	1459	1460	1460	1469	1468	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°	1580.1	1580.1	1580.1	1580.1	1580.1
2.5°	1584.8	1581.7	1570.8	1581.7	1580.1
5°	1580.1	1577.0	1566.2	1578.6	1577.0
7.5°	1569.3	1567.7	1556.9	1567.7	1566.2
10°	1553.8	1553.8	1541.4	1552.3	1550.7
12.5°	1532.1	1533.7	1524.4	1532.1	1527.5
15°	1508.9	1510.4	1499.6	1508.9	1502.7
17.5°	1479.4	1482.5	1471.7	1479.4	1474.8
20°	1446.9	1450.0	1439.2	1443.8	1443.8
22.5°	1409.7	1415.9	1403.5	1409.7	1405.1
25°	1371.0	1375.7	1366.4	1372.6	1364.8
27.5°	1329.2	1335.4	1324.5	1329.2	1326.1
30°	1281.2	1290.4	1281.2	1284.3	1282.7
32.5°	1237.8	1245.5	1239.3	1242.4	1240.9
35°	1186.7	1197.5	1192.9	1197.5	1197.5
37.5°	1137.1	1146.4	1144.8	1151.0	1149.5
40°	1086.0	1098.4	1096.8	1103.0	1106.1
42.5°	1030.2	1047.2	1051.9	1059.6	1059.6
45°	977.5	994.6	1002.3	1013.1	1014.7
47.5°	923.3	938.8	951.2	966.7	969.8
50°	867.5	884.6	901.6	918.7	923.3
52.5°	808.7	830.3	852.0	870.6	873.7
55°	751.3	776.1	800.9	818.0	824.2
57.5°	692.5	721.9	749.8	768.4	773.0
60°	633.6	664.6	695.6	718.8	723.5
62.5°	576.3	607.3	641.4	667.7	673.9
65°	517.4	553.0	590.2	613.5	619.7
67.5°	463.2	497.3	534.5	562.3	570.1
70°	402.8	438.4	478.7	508.1	517.4
72.5°	343.9	381.1	426.0	458.6	464.7
75°	285.0	325.3	374.9	405.9	413.6
77.5°	227.7	274.2	320.7	354.8	361.0
80°	175.1	221.5	274.2	308.3	314.5
82.5°	127.0	176.6	230.8	263.4	275.8
85°	85.2	136.3	190.5	224.6	237.0
87.5°	54.2	103.8	156.5	192.1	202.9
90°	26.1	86.0	147.5	189.7	204.3
92.5°	46.1	79.4	141.3	181.9	194.1
95°	93.3	129.7	133.6	174.2	185.0
97.5°	156.0	200.9	130.0	165.1	177.3
100°	231.5	267.9	322.5	163.8	168.0
102.5°	308.3	342.8	393.4	427.0	328.4
105°	391.4	421.4	467.9	498.9	508.4
107.5°	477.3	499.0	546.4	578.7	582.9
110°	560.4	579.0	625.0	650.5	662.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	640.0	657.9	701.0	723.7	732.0
115°	718.2	735.4	777.0	799.7	801.3
117.5°	800.0	807.8	851.7	870.4	878.6
120°	877.1	880.5	920.0	943.8	946.7
122.5°	943.6	951.6	987.0	1009.2	1010.8
125°	1014.3	1021.7	1052.7	1072.3	1076.3
127.5°	1080.7	1085.7	1110.7	1131.4	1130.4
130°	1142.4	1147.3	1170.3	1188.1	1189.4
132.5°	1202.5	1210.2	1221.9	1243.6	1243.4
135°	1260.3	1266.4	1274.7	1292.3	1292.4
137.5°	1314.2	1320.4	1324.0	1342.6	1342.4
140°	1365.3	1367.9	1368.2	1387.7	1386.2
142.5°	1412.8	1412.6	1415.2	1429.1	1427.6
145°	1459.0	1460.1	1460.1	1469.1	1467.6
147.5°	1498.6	1498.6	1499.9	1504.3	1498.4
150°	1537.2	1534.6	1537.2	1539.7	1531.0
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)