

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: P1034986

Luminaire Tested: S125DIW-B1090D1340UB35-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034986
REPORT IS A COMBINATION OF REPORTS P1002831 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1090D1340UB35-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

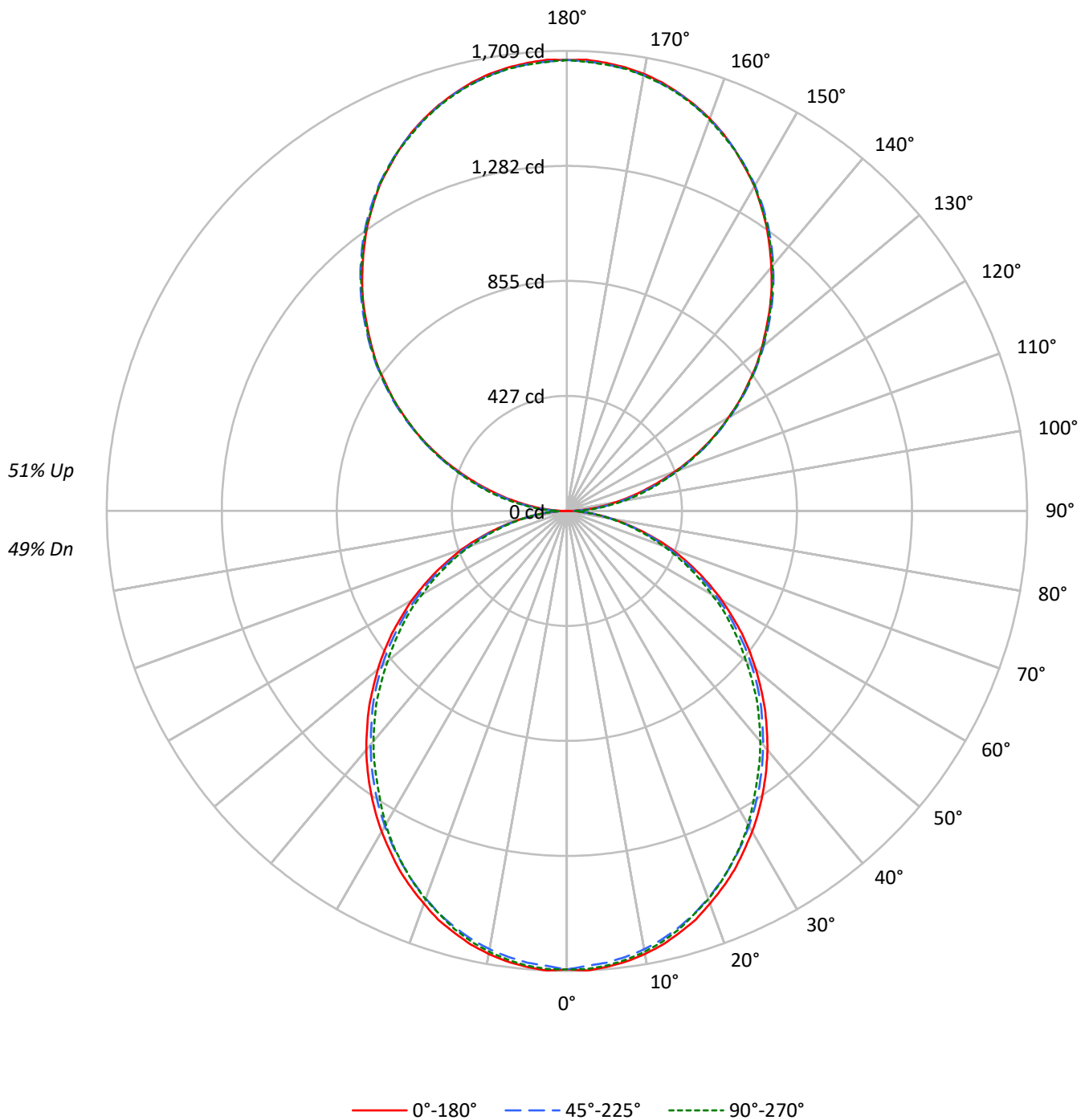
Lumens per Lamp: N/A
Luminaire Lumens: 9111.0 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 88.9
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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55
1	97	93	89	86	90	86	83	79	72	70	68	60	58	57	48	47	46
2	89	81	75	70	81	75	70	65	63	59	56	53	50	47	43	41	39
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	38	35	33
4	74	63	55	49	68	58	51	46	50	44	40	41	37	34	34	31	28
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25
6	63	50	42	36	57	47	40	34	40	34	30	34	29	26	28	24	22
7	58	46	38	32	53	42	35	30	36	31	26	30	26	23	25	22	19
8	54	41	34	28	49	38	31	27	33	27	24	28	24	20	23	20	17
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10915	10915	10915
5°	10916	10662	10682
10°	10825	10417	10384
15°	10683	10125	10034
20°	10491	9786	9632
25°	10285	9416	9202
30°	10036	9031	8749
35°	9769	8627	8241
40°	9495	8200	7789
45°	9198	7784	7309
50°	8871	7313	6750
55°	8547	6792	6235
60°	8162	6243	5637
65°	7700	5608	5018
70°	7229	4878	4305
75°	6440	4017	3480
80°	5487	3000	2560
85°	4237	1775	1410

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9198 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	1.8
10°-20°	454.1	5.0
20°-30°	670.4	7.4
30°-40°	782.1	8.6
40°-50°	785.5	8.6
50°-60°	689.5	7.6
60°-70°	513.6	5.6
70°-80°	293.3	3.2
80°-90°	87.3	1.0
90°-100°	111.4	1.2
100°-110°	330.9	3.6
110°-120°	561.1	6.2
120°-130°	738.7	8.1
130°-140°	827.8	9.1
140°-150°	811.4	8.9
150°-160°	681.5	7.5
160°-170°	453.0	5.0
170°-180°	158.5	1.7
0°-30°	1285.2	14.1
0°-40°	2067.3	22.7
0°-60°	3542.4	38.9
0°-90°	4436.6	48.7
90°-120°	1003.4	11.0
90°-150°	3381.3	37.1
90°-180°	4674.0	51.3
0°-180°	9111.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1704	1704	1704	1704	1704	
5°	1701	1698	1685	1697	1696	161
15°	1621	1617	1602	1609	1609	457
25°	1472	1465	1448	1450	1446	677
35°	1271	1266	1247	1240	1229	795
45°	1040	1035	1019	1003	999	802
55°	792	788	770	757	748	707
65°	535	532	518	505	500	531
75°	284	282	275	271	266	303
85°	74	76	76	74	71	81
90°	1	12	21	27	31	11
95°	85	87	100	110	112	89
105°	297	304	312	319	323	317
115°	562	567	570	568	567	556
125°	820	828	829	826	825	735
135°	1066	1074	1075	1075	1070	822
145°	1292	1297	1301	1301	1297	808
155°	1478	1478	1479	1485	1478	681
165°	1607	1604	1606	1611	1603	453
175°	1671	1666	1666	1674	1664	159
180°	1675	1675	1675	1675	1675	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1703.6	1703.6	1703.6	1703.6	1703.6
2.5°	1709.0	1704.9	1691.5	1704.9	1703.6
5°	1700.9	1698.2	1684.7	1696.8	1695.5
7.5°	1688.8	1686.1	1671.2	1683.4	1682.0
10°	1671.2	1668.5	1653.7	1664.5	1663.1
12.5°	1649.7	1644.3	1630.8	1638.9	1638.9
15°	1621.4	1617.3	1602.5	1609.2	1609.2
17.5°	1591.7	1585.0	1570.2	1578.2	1571.5
20°	1552.6	1549.9	1532.4	1541.8	1535.1
22.5°	1513.5	1508.2	1492.0	1497.4	1493.3
25°	1471.8	1465.0	1447.5	1450.2	1446.2
27.5°	1423.2	1419.2	1401.7	1403.0	1399.0
30°	1376.1	1372.0	1351.8	1349.1	1345.1
32.5°	1324.9	1318.1	1300.6	1295.2	1287.1
35°	1270.9	1265.6	1246.7	1239.9	1229.2
37.5°	1215.7	1208.9	1191.4	1182.0	1175.3
40°	1159.1	1152.3	1133.5	1121.3	1117.3
42.5°	1098.4	1093.0	1074.2	1063.4	1056.7
45°	1040.5	1035.1	1018.9	1002.7	998.7
47.5°	977.1	978.5	958.3	942.1	932.7
50°	916.5	912.4	896.3	878.7	869.3
52.5°	854.5	851.8	834.3	819.4	808.7
55°	792.5	788.4	769.6	757.4	748.0
57.5°	726.4	725.1	708.9	692.8	688.7
60°	664.5	659.1	644.2	630.8	621.3
62.5°	599.8	595.7	583.6	568.8	562.0
65°	535.1	532.4	517.5	505.4	500.0
67.5°	471.7	466.3	455.5	444.8	442.1
70°	412.4	405.7	393.5	385.5	380.1
72.5°	347.7	343.7	336.9	327.5	322.1
75°	284.4	281.7	274.9	270.9	265.5
77.5°	225.1	223.7	219.7	217.0	212.9
80°	169.8	169.8	167.1	165.8	163.1
82.5°	121.3	118.6	118.6	115.9	115.9
85°	74.1	75.5	75.5	74.1	71.4
87.5°	36.4	36.4	35.0	35.0	32.3
90°	1.3	11.7	20.9	27.4	31.3
92.5°	39.1	45.6	57.3	66.5	69.1
95°	84.7	87.3	100.4	109.5	112.1
97.5°	130.3	131.6	149.9	157.7	159.0
100°	182.5	182.5	199.4	211.1	213.8
102.5°	238.5	245.0	251.6	264.6	268.5
105°	297.2	303.7	311.5	319.3	323.2
107.5°	361.0	367.6	374.1	378.0	378.0
110°	427.5	434.0	437.9	441.8	440.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	495.3	497.9	503.1	504.4	501.8
115°	561.8	567.0	569.6	568.3	567.0
117.5°	629.5	630.8	633.4	634.8	629.5
120°	692.1	698.6	699.9	699.9	694.7
122.5°	759.9	761.2	765.1	763.8	759.9
125°	819.8	827.7	829.0	826.4	825.0
127.5°	886.3	890.2	891.5	890.2	887.6
130°	945.0	951.5	954.1	952.8	950.2
132.5°	1003.6	1015.3	1014.0	1012.7	1008.8
135°	1066.2	1074.0	1075.3	1075.3	1070.1
137.5°	1124.8	1132.6	1135.3	1136.6	1130.0
140°	1180.9	1187.4	1191.3	1193.9	1187.4
142.5°	1236.9	1242.1	1247.3	1248.6	1242.1
145°	1291.7	1296.9	1300.8	1300.8	1296.9
147.5°	1342.5	1346.4	1349.0	1352.9	1342.5
150°	1393.3	1392.0	1397.2	1397.2	1394.6
152.5°	1435.0	1437.6	1438.9	1442.9	1437.6
155°	1478.0	1478.0	1479.3	1484.6	1478.0
157.5°	1517.1	1514.5	1515.8	1521.1	1511.9
160°	1551.0	1547.1	1548.4	1553.6	1547.1
162.5°	1581.0	1578.4	1578.4	1584.9	1577.1
165°	1607.1	1604.5	1605.8	1611.0	1603.2
167.5°	1630.5	1625.3	1625.3	1633.1	1625.3
170°	1648.8	1643.6	1643.6	1651.4	1642.3
172.5°	1661.8	1656.6	1656.6	1664.4	1656.6
175°	1670.9	1665.7	1665.7	1673.6	1664.4
177.5°	1677.5	1672.3	1670.9	1678.8	1669.6
180°	1674.9	1674.9	1674.9	1674.9	1674.9

(END OF REPORT)