

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: P1034998

Luminaire Tested: S125DIW-B1090D1560UB27-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034998
REPORT IS A COMBINATION OF REPORTS P1002854 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1090D1560UB27-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

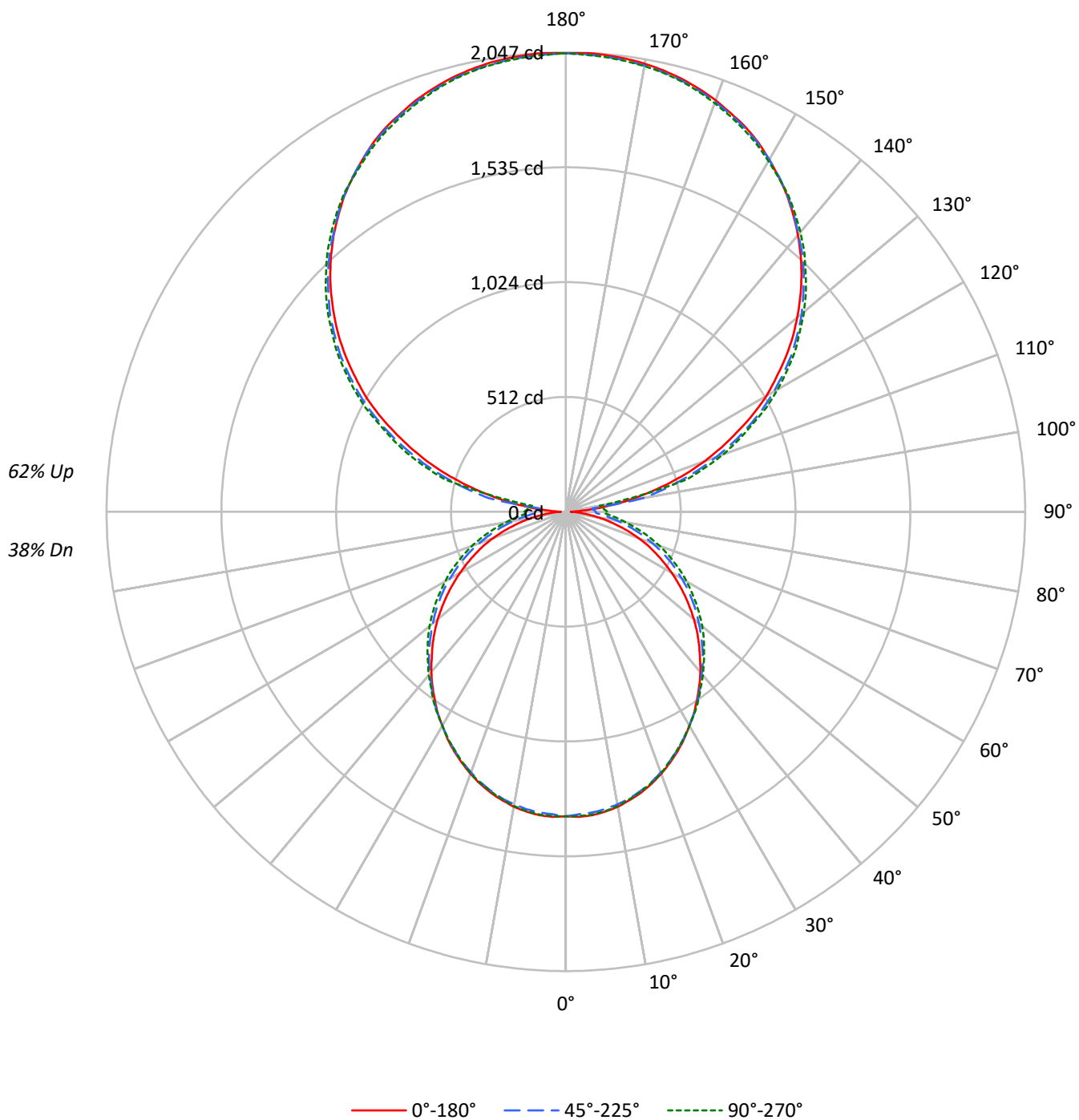
Lumens per Lamp: N/A
Luminaire Lumens: 10482.0 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 99
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	95	95	95	95	76	76	76	60	60	60	45	45	45
1	94	90	86	82	85	82	78	75	66	64	62	52	50	49	39	38	37
2	86	78	72	67	77	71	66	61	58	54	50	45	43	40	34	32	30
3	78	69	61	55	70	62	56	51	51	46	42	40	36	34	30	28	26
4	71	60	53	46	64	55	48	43	45	40	36	35	32	29	26	24	22
5	65	54	46	40	59	49	42	37	40	35	31	32	28	25	24	21	19
6	60	48	40	34	54	44	37	32	36	31	27	28	25	22	21	19	17
7	55	43	35	30	50	40	33	28	32	27	23	26	22	19	20	17	15
8	51	39	31	26	46	36	29	24	29	24	21	24	20	17	18	15	13
9	48	36	28	23	43	33	26	22	27	22	18	22	18	15	17	14	12
10	45	33	25	21	40	30	24	19	25	20	16	20	16	14	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8695	8695	8695
5°	8709	8513	8533
10°	8644	8339	8315
15°	8539	8137	8047
20°	8397	7893	7780
25°	8228	7634	7458
30°	8024	7351	7165
35°	7834	7090	6895
40°	7641	6815	6623
45°	7421	6576	6378
50°	7212	6317	6157
55°	6960	6071	5900
60°	6684	5790	5637
65°	6394	5493	5341
70°	6063	5096	5033
75°	5543	4705	4656
80°	4857	4228	4240
85°	4185	3847	4022

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7421 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	1.2
10°-20°	364.6	3.5
20°-30°	542.1	5.2
30°-40°	642.0	6.1
40°-50°	663.7	6.3
50°-60°	611.4	5.8
60°-70°	494.3	4.7
70°-80°	330.7	3.2
80°-90°	174.0	1.7
90°-100°	165.6	1.6
100°-110°	532.0	5.1
110°-120°	877.7	8.4
120°-130°	1092.5	10.4
130°-140°	1157.9	11.0
140°-150°	1078.0	10.3
150°-160°	870.1	8.3
160°-170°	562.7	5.4
170°-180°	194.1	1.9
0°-30°	1035.1	9.9
0°-40°	1677.1	16.0
0°-60°	2952.3	28.2
0°-90°	3951.2	37.7
90°-120°	1575.4	15.0
90°-150°	4903.9	46.8
90°-180°	6531.0	62.3
0°-180°	10482.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1357	1357	1357	1357	1357	
5°	1357	1354	1345	1356	1354	129
15°	1296	1297	1288	1296	1291	365
25°	1178	1182	1174	1179	1172	542
35°	1019	1028	1024	1028	1028	638
45°	840	854	861	870	872	648
55°	645	667	688	702	708	577
65°	444	475	507	527	532	441
75°	245	279	322	349	355	259
85°	73	117	164	193	204	76
90°	23	78	133	172	185	19
95°	104	134	121	158	168	119
105°	457	485	524	551	559	484
115°	844	861	897	915	914	837
125°	1194	1203	1230	1245	1247	1066
135°	1485	1493	1499	1513	1511	1145
145°	1720	1722	1722	1730	1726	1075
155°	1893	1884	1887	1891	1879	872
165°	1997	1988	1990	1999	1987	564
175°	2043	2034	2035	2047	2034	195
180°	2043	2043	2043	2043	2043	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1357.1	1357.1	1357.1	1357.1	1357.1
2.5°	1361.1	1358.4	1349.1	1358.4	1357.1
5°	1357.1	1354.4	1345.1	1355.8	1354.4
7.5°	1347.8	1346.4	1337.1	1346.4	1345.1
10°	1334.5	1334.5	1323.8	1333.1	1331.8
12.5°	1315.8	1317.2	1309.2	1315.8	1311.8
15°	1295.9	1297.2	1287.9	1295.9	1290.6
17.5°	1270.6	1273.3	1263.9	1270.6	1266.6
20°	1242.7	1245.3	1236.0	1240.0	1240.0
22.5°	1210.7	1216.1	1205.4	1210.7	1206.7
25°	1177.5	1181.5	1173.5	1178.8	1172.1
27.5°	1141.5	1146.9	1137.6	1141.5	1138.9
30°	1100.3	1108.3	1100.3	1103.0	1101.6
32.5°	1063.0	1069.7	1064.4	1067.0	1065.7
35°	1019.1	1028.5	1024.5	1028.5	1028.5
37.5°	976.6	984.5	983.2	988.5	987.2
40°	932.7	943.3	942.0	947.3	950.0
42.5°	884.8	899.4	903.4	910.0	910.0
45°	839.5	854.2	860.8	870.1	871.5
47.5°	793.0	806.3	816.9	830.2	832.9
50°	745.1	759.7	774.3	789.0	793.0
52.5°	694.5	713.1	731.8	747.7	750.4
55°	645.3	666.6	687.9	702.5	707.8
57.5°	594.7	620.0	643.9	659.9	663.9
60°	544.2	570.8	597.4	617.3	621.3
62.5°	494.9	521.5	550.8	573.4	578.8
65°	444.4	475.0	506.9	526.9	532.2
67.5°	397.8	427.1	459.0	483.0	489.6
70°	345.9	376.5	411.1	436.4	444.4
72.5°	295.4	327.3	365.9	393.8	399.1
75°	244.8	279.4	322.0	348.6	355.2
77.5°	195.6	235.5	275.4	304.7	310.0
80°	150.3	190.3	235.5	264.8	270.1
82.5°	109.1	151.7	198.2	226.2	236.8
85°	73.2	117.1	163.6	192.9	203.6
87.5°	46.6	89.1	134.4	165.0	174.3
90°	22.8	77.5	133.3	171.5	185.3
92.5°	47.4	72.3	128.0	164.8	175.7
95°	103.6	133.7	121.3	158.2	167.5
97.5°	178.0	219.0	119.1	150.0	160.9
100°	267.5	300.0	348.7	151.0	152.9
102.5°	358.6	389.9	434.1	463.8	344.6
105°	457.2	484.6	524.5	551.1	558.8
107.5°	558.8	577.5	619.1	647.2	649.1
110°	657.4	673.4	713.6	734.4	745.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	751.3	767.8	805.3	823.2	829.5
115°	843.9	860.8	896.9	914.7	913.6
117.5°	941.0	947.6	987.0	1000.5	1006.8
120°	1031.9	1034.3	1069.4	1089.1	1089.4
122.5°	1110.7	1119.7	1150.4	1168.7	1167.6
125°	1194.0	1203.3	1229.9	1245.2	1247.2
127.5°	1273.0	1279.2	1300.3	1317.2	1313.1
130°	1345.7	1351.9	1372.0	1386.1	1385.2
132.5°	1417.0	1426.1	1434.9	1453.5	1451.2
135°	1485.2	1492.9	1499.1	1513.4	1511.0
137.5°	1548.8	1556.5	1558.8	1574.7	1572.5
140°	1609.5	1612.5	1612.4	1630.0	1626.2
142.5°	1665.5	1665.7	1668.7	1680.7	1677.0
145°	1720.0	1721.7	1721.7	1730.0	1726.2
147.5°	1767.2	1767.2	1768.7	1772.9	1764.9
150°	1812.6	1809.6	1812.6	1815.6	1804.8
152.5°	1856.5	1848.9	1852.0	1855.0	1844.4
155°	1892.9	1883.8	1886.8	1891.3	1879.2
157.5°	1921.6	1917.1	1917.1	1921.6	1909.5
160°	1951.9	1942.8	1944.3	1950.4	1938.3
162.5°	1976.1	1967.1	1968.6	1977.7	1964.0
165°	1997.3	1988.3	1989.8	1998.9	1986.7
167.5°	2014.0	2004.9	2006.4	2017.0	2003.4
170°	2027.6	2017.0	2018.5	2030.7	2017.0
172.5°	2036.7	2026.1	2029.1	2039.7	2026.1
175°	2042.8	2033.7	2035.2	2047.3	2033.7
177.5°	2047.3	2038.2	2039.7	2050.3	2038.2
180°	2042.8	2042.8	2042.8	2042.8	2042.8

(END OF REPORT)