

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: P1035010

Luminaire Tested: S125DIW-B1090D1560UB35-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035010
REPORT IS A COMBINATION OF REPORTS P1002893 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1090D1560UB35-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

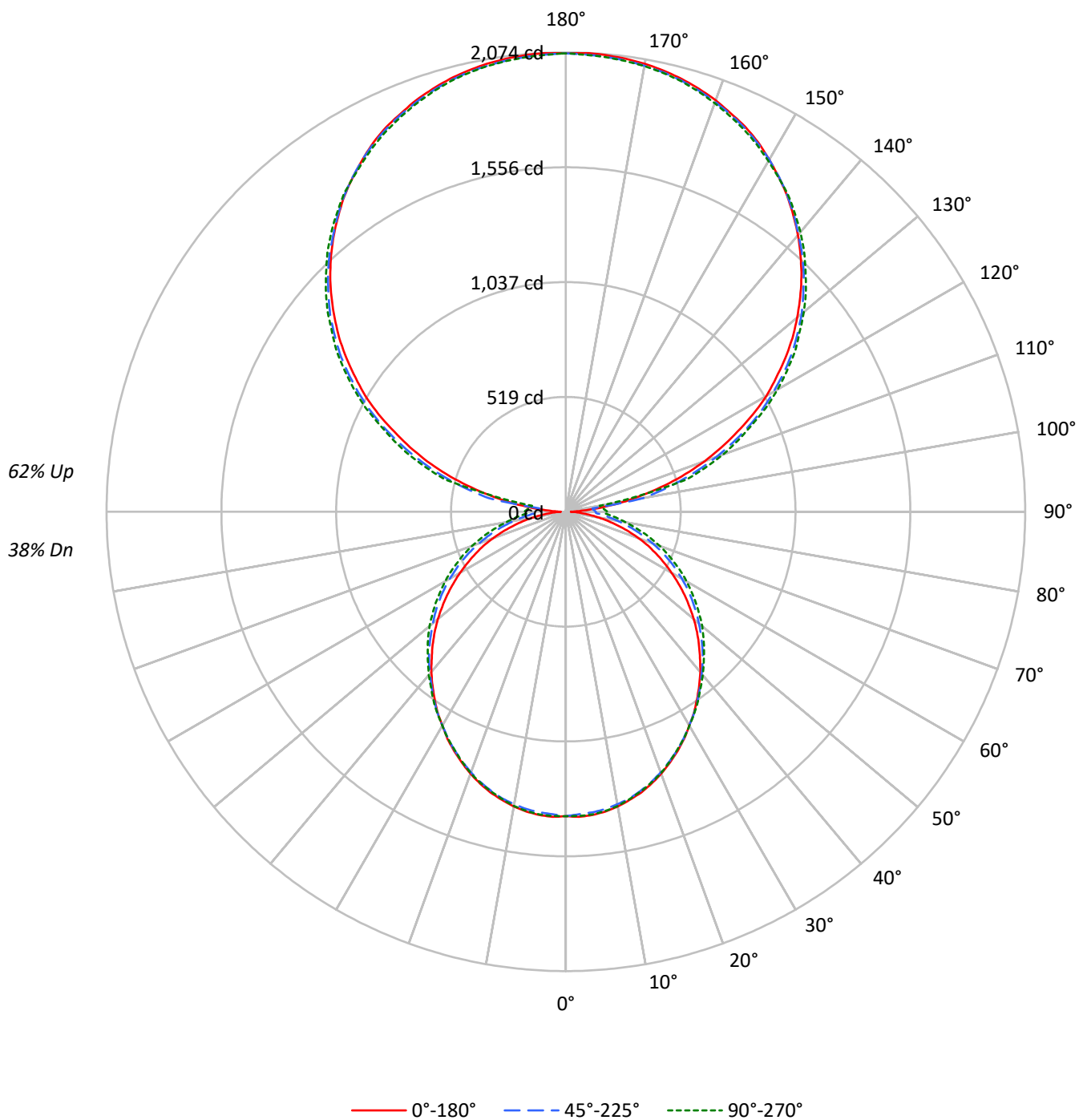
Lumens per Lamp: N/A
Luminaire Lumens: 10618.0 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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					0
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	95	95	95	95	76	76	76	60	60	60	45	45	45	38		
1	94	90	86	82	85	82	78	75	66	64	62	52	50	49	39	38	37	31		
2	86	78	72	67	77	71	66	61	58	54	50	45	43	40	34	32	30	25		
3	78	69	61	55	70	62	56	51	51	46	42	40	36	34	30	28	26	21		
4	71	60	53	46	64	55	48	43	45	40	36	35	32	29	26	24	22	18		
5	65	54	46	40	59	49	42	37	40	35	31	32	28	25	24	21	19	15		
6	60	48	40	34	54	44	37	32	36	31	27	28	25	22	21	19	17	14		
7	55	43	35	30	50	40	33	28	32	27	23	26	22	19	20	17	15	12		
8	51	39	31	26	46	36	29	24	29	24	21	24	20	17	18	15	13	11		
9	48	36	28	23	43	33	26	22	27	22	18	22	18	15	17	14	12	10		
10	45	33	25	21	40	30	24	19	25	20	16	20	16	14	15	13	11	9		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8807	8807	8807
5°	8821	8622	8643
10°	8755	8446	8422
15°	8648	8241	8150
20°	8504	7994	7880
25°	8334	7731	7554
30°	8127	7445	7257
35°	7935	7180	6984
40°	7738	6902	6708
45°	7517	6661	6460
50°	7304	6399	6236
55°	7049	6149	5976
60°	6770	5864	5709
65°	6477	5564	5409
70°	6142	5162	5097
75°	5615	4765	4716
80°	4922	4282	4295
85°	4237	3899	4073

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7517 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	1.2
10°-20°	369.2	3.5
20°-30°	549.1	5.2
30°-40°	650.3	6.1
40°-50°	672.3	6.3
50°-60°	619.3	5.8
60°-70°	500.6	4.7
70°-80°	335.0	3.2
80°-90°	176.2	1.7
90°-100°	167.7	1.6
100°-110°	538.9	5.1
110°-120°	889.2	8.4
120°-130°	1106.8	10.4
130°-140°	1173.0	11.0
140°-150°	1092.1	10.3
150°-160°	881.5	8.3
160°-170°	570.1	5.4
170°-180°	196.6	1.9
0°-30°	1048.4	9.9
0°-40°	1698.6	16.0
0°-60°	2990.2	28.2
0°-90°	4002.0	37.7
90°-120°	1595.9	15.0
90°-150°	4967.8	46.8
90°-180°	6616.0	62.3
0°-180°	10618.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1374	1374	1374	1374	1374	
5°	1374	1372	1362	1373	1372	130
15°	1312	1314	1304	1312	1307	370
25°	1193	1197	1188	1194	1187	549
35°	1032	1042	1038	1042	1042	646
45°	850	865	872	881	883	656
55°	654	675	697	712	717	584
65°	450	481	513	534	539	447
75°	248	283	326	353	360	263
85°	74	119	166	195	206	77
90°	23	78	135	174	188	19
95°	105	135	123	160	170	121
105°	463	491	531	558	566	491
115°	855	872	909	927	926	847
125°	1210	1219	1246	1261	1264	1080
135°	1505	1512	1519	1533	1531	1160
145°	1742	1744	1744	1752	1749	1090
155°	1918	1908	1911	1916	1904	884
165°	2023	2014	2016	2025	2013	572
175°	2070	2060	2062	2074	2060	197
180°	2070	2070	2070	2070	2070	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1374.5	1374.5	1374.5	1374.5	1374.5
2.5°	1378.6	1375.9	1366.4	1375.9	1374.5
5°	1374.5	1371.8	1362.4	1373.2	1371.8
7.5°	1365.1	1363.7	1354.3	1363.7	1362.4
10°	1351.6	1351.6	1340.8	1350.3	1348.9
12.5°	1332.7	1334.1	1326.0	1332.7	1328.7
15°	1312.5	1313.9	1304.4	1312.5	1307.1
17.5°	1286.9	1289.6	1280.2	1286.9	1282.9
20°	1258.6	1261.3	1251.9	1255.9	1255.9
22.5°	1226.3	1231.7	1220.9	1226.3	1222.2
25°	1192.6	1196.6	1188.5	1193.9	1187.2
27.5°	1156.2	1161.6	1152.2	1156.2	1153.5
30°	1114.4	1122.5	1114.4	1117.1	1115.8
32.5°	1076.7	1083.4	1078.0	1080.7	1079.4
35°	1032.2	1041.7	1037.6	1041.7	1041.7
37.5°	989.1	997.2	995.8	1001.2	999.9
40°	944.6	955.4	954.1	959.5	962.2
42.5°	896.1	911.0	915.0	921.7	921.7
45°	850.3	865.1	871.9	881.3	882.7
47.5°	803.1	816.6	827.4	840.9	843.6
50°	754.6	769.5	784.3	799.1	803.1
52.5°	703.4	722.3	741.2	757.3	760.0
55°	653.6	675.1	696.7	711.5	716.9
57.5°	602.4	628.0	652.2	668.4	672.4
60°	551.2	578.1	605.1	625.3	629.3
62.5°	501.3	528.2	557.9	580.8	586.2
65°	450.1	481.1	513.4	533.6	539.0
67.5°	402.9	432.6	464.9	489.2	495.9
70°	350.4	381.4	416.4	442.0	450.1
72.5°	299.2	331.5	370.6	398.9	404.3
75°	248.0	283.0	326.1	353.1	359.8
77.5°	198.1	238.5	278.9	308.6	314.0
80°	152.3	192.7	238.5	268.2	273.6
82.5°	110.5	153.6	200.8	229.1	239.9
85°	74.1	118.6	165.8	195.4	206.2
87.5°	47.2	90.3	136.1	167.1	176.5
90°	23.1	78.5	135.0	173.7	187.7
92.5°	48.0	73.2	129.6	167.0	177.9
95°	104.9	135.4	122.9	160.2	169.7
97.5°	180.3	221.8	120.6	152.0	162.9
100°	271.0	303.9	353.1	152.9	154.8
102.5°	363.3	395.0	439.9	469.8	349.1
105°	463.1	490.9	531.3	558.3	566.1
107.5°	566.1	584.9	627.1	655.6	657.6
110°	666.0	682.2	722.9	743.9	755.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	761.1	777.9	815.7	833.9	840.2
115°	854.9	872.0	908.6	926.7	925.6
117.5°	953.2	960.0	999.9	1013.6	1019.9
120°	1045.3	1047.8	1083.4	1103.3	1103.7
122.5°	1125.3	1134.2	1165.5	1183.9	1182.8
125°	1209.6	1219.0	1246.0	1261.4	1263.5
127.5°	1289.5	1295.9	1317.3	1334.4	1330.2
130°	1363.2	1369.6	1390.0	1404.2	1403.3
132.5°	1435.5	1444.7	1453.6	1472.4	1470.1
135°	1504.6	1512.4	1518.8	1533.2	1530.7
137.5°	1569.0	1576.8	1579.1	1595.3	1593.0
140°	1630.5	1633.5	1633.4	1651.3	1647.5
142.5°	1687.2	1687.5	1690.5	1702.6	1698.8
145°	1742.5	1744.2	1744.2	1752.5	1748.7
147.5°	1790.3	1790.3	1791.8	1796.0	1788.0
150°	1836.3	1833.2	1836.3	1839.3	1828.4
152.5°	1880.8	1873.1	1876.2	1879.2	1868.5
155°	1917.6	1908.4	1911.4	1916.0	1903.8
157.5°	1946.7	1942.1	1942.1	1946.7	1934.5
160°	1977.4	1968.2	1969.7	1975.9	1963.6
162.5°	2002.0	1992.8	1994.3	2003.5	1989.7
165°	2023.4	2014.2	2015.8	2025.0	2012.7
167.5°	2040.3	2031.1	2032.6	2043.4	2029.6
170°	2054.1	2043.4	2044.9	2057.2	2043.4
172.5°	2063.3	2052.6	2055.6	2066.4	2052.6
175°	2069.5	2060.3	2061.8	2074.1	2060.3
177.5°	2074.1	2064.9	2066.4	2077.1	2064.9
180°	2069.5	2069.5	2069.5	2069.5	2069.5

(END OF REPORT)