

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: P1035084

Luminaire Tested: S125DIW-B1090D770UB50-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035084
REPORT IS A COMBINATION OF REPORTS P1003046 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1090D770UB50-4F0-XX-W2A-F
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

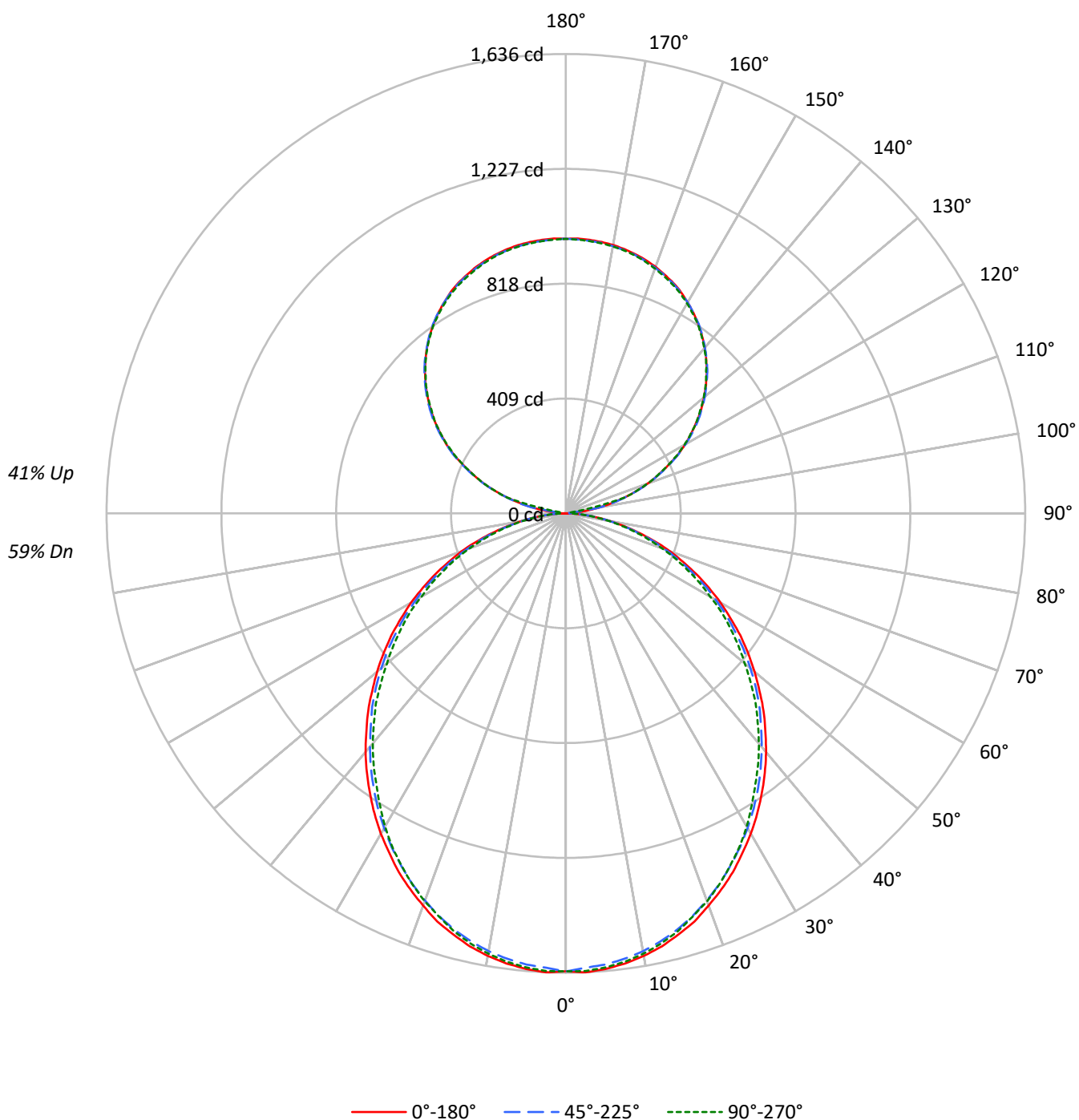
Lumens per Lamp: N/A
Luminaire Lumens: 7250.0 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 70
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64
1	100	95	91	88	93	89	86	82	77	75	72	66	65	63	56	55	54
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	50	47	45
3	83	73	66	60	77	68	62	56	60	55	50	52	48	44	44	41	39
4	76	65	57	50	70	61	53	48	53	47	43	46	42	38	39	36	33
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29
6	64	52	44	38	60	49	41	36	43	37	32	37	33	29	32	28	26
7	59	47	39	33	55	44	37	31	39	33	29	34	29	26	29	26	23
8	55	43	35	29	51	40	33	28	35	30	25	31	26	23	27	23	20
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	18
10	48	36	28	23	45	34	27	22	30	24	21	26	22	19	23	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10450	10450	10450
5°	10450	10207	10227
10°	10364	9973	9942
15°	10228	9693	9606
20°	10043	9369	9222
25°	9846	9015	8810
30°	9608	8646	8375
35°	9354	8259	7889
40°	9091	7851	7457
45°	8806	7453	6997
50°	8493	7001	6462
55°	8183	6503	5969
60°	7813	5978	5396
65°	7372	5370	4804
70°	6920	4671	4121
75°	6166	3846	3332
80°	5254	2873	2451
85°	4059	1700	1351

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8806 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.9	2.1
10°-20°	434.7	6.0
20°-30°	641.8	8.9
30°-40°	748.8	10.3
40°-50°	752.0	10.4
50°-60°	660.2	9.1
60°-70°	491.7	6.8
70°-80°	280.8	3.9
80°-90°	82.5	1.1
90°-100°	33.2	0.5
100°-110°	220.7	3.0
110°-120°	397.4	5.5
120°-130°	510.1	7.0
130°-140°	548.6	7.6
140°-150°	514.9	7.1
150°-160°	416.5	5.7
160°-170°	269.4	3.7
170°-180°	92.9	1.3
0°-30°	1230.4	17.0
0°-40°	1979.2	27.3
0°-60°	3391.4	46.8
0°-90°	4246.5	58.6
90°-120°	651.2	9.0
90°-150°	2224.8	30.7
90°-180°	3004.0	41.4
0°-180°	7250.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1631	1631	1631	1631	1631	
5°	1628	1626	1613	1624	1623	155
15°	1552	1548	1534	1541	1541	438
25°	1409	1403	1386	1388	1384	648
35°	1217	1212	1194	1187	1177	761
45°	996	991	976	960	956	767
55°	759	755	737	725	716	677
65°	512	510	496	484	479	508
75°	272	270	263	259	254	290
85°	71	72	72	71	68	78
90°	1	6	12	15	17	7
95°	41	39	12	15	15	51
105°	213	216	216	216	215	226
115°	400	404	404	402	397	397
125°	569	574	574	571	569	508
135°	710	714	712	711	707	547
145°	823	824	824	825	820	515
155°	906	902	903	905	900	417
165°	956	952	952	957	951	270
175°	978	973	974	980	973	93
180°	978	978	978	978	978	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1631.0	1631.0	1631.0	1631.0	1631.0
2.5°	1636.1	1632.3	1619.4	1632.3	1631.0
5°	1628.4	1625.8	1612.9	1624.5	1623.2
7.5°	1616.8	1614.2	1600.0	1611.6	1610.3
10°	1600.0	1597.4	1583.2	1593.5	1592.3
12.5°	1579.4	1574.2	1561.3	1569.0	1569.0
15°	1552.3	1548.4	1534.2	1540.6	1540.6
17.5°	1523.9	1517.4	1503.2	1511.0	1504.5
20°	1486.4	1483.9	1467.1	1476.1	1469.7
22.5°	1449.0	1443.9	1428.4	1433.5	1429.7
25°	1409.0	1402.6	1385.8	1388.4	1384.5
27.5°	1362.6	1358.7	1341.9	1343.2	1339.4
30°	1317.4	1313.5	1294.2	1291.6	1287.7
32.5°	1268.4	1261.9	1245.2	1240.0	1232.3
35°	1216.8	1211.6	1193.5	1187.1	1176.8
37.5°	1163.9	1157.4	1140.6	1131.6	1125.2
40°	1109.7	1103.2	1085.2	1073.5	1069.7
42.5°	1051.6	1046.4	1028.4	1018.1	1011.6
45°	996.1	991.0	975.5	960.0	956.1
47.5°	935.5	936.8	917.4	901.9	892.9
50°	877.4	873.5	858.1	841.3	832.3
52.5°	818.1	815.5	798.7	784.5	774.2
55°	758.7	754.8	736.8	725.2	716.1
57.5°	695.5	694.2	678.7	663.2	659.4
60°	636.1	631.0	616.8	603.9	594.8
62.5°	574.2	570.3	558.7	544.5	538.1
65°	512.3	509.7	495.5	483.9	478.7
67.5°	451.6	446.5	436.1	425.8	423.2
70°	394.8	388.4	376.8	369.0	363.9
72.5°	332.9	329.0	322.6	313.5	308.4
75°	272.3	269.7	263.2	259.4	254.2
77.5°	215.5	214.2	210.3	207.7	203.9
80°	162.6	162.6	160.0	158.7	156.1
82.5°	116.1	113.5	113.5	111.0	111.0
85°	71.0	72.3	72.3	71.0	68.4
87.5°	34.8	34.8	33.5	33.5	31.0
90°	0.7	6.5	11.6	15.2	17.4
92.5°	13.8	7.2	11.6	15.2	15.9
95°	41.3	39.1	11.6	15.2	15.2
97.5°	77.6	81.9	13.0	14.5	15.2
100°	121.0	123.2	126.1	18.1	15.2
102.5°	165.3	168.2	169.6	171.1	110.2
105°	213.1	216.0	216.0	216.0	215.3
107.5°	262.4	262.4	263.8	264.6	261.7
110°	310.2	310.2	311.7	309.5	310.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	355.2	357.3	358.1	355.2	353.7
115°	400.1	403.7	404.5	401.6	397.2
117.5°	447.2	447.2	450.1	445.8	444.3
120°	490.7	490.0	492.2	490.7	487.1
122.5°	529.1	532.7	533.5	532.0	527.7
125°	569.0	574.1	574.1	571.2	569.0
127.5°	607.4	611.0	610.3	608.9	603.1
130°	642.2	645.8	646.5	644.4	640.7
132.5°	677.0	681.3	679.2	679.2	675.5
135°	709.6	713.9	712.5	711.1	706.7
137.5°	740.0	744.4	742.9	742.9	739.3
140°	769.8	771.2	770.5	771.9	767.6
142.5°	796.6	797.3	798.8	798.8	794.4
145°	822.7	824.1	824.1	824.8	820.5
147.5°	845.9	845.9	846.6	847.3	842.2
150°	867.6	866.2	867.6	869.1	863.3
152.5°	888.6	885.0	886.5	887.9	882.8
155°	906.0	901.7	903.1	905.3	899.5
157.5°	919.8	917.6	917.6	919.8	914.0
160°	934.3	929.9	930.7	933.6	927.8
162.5°	945.9	941.5	942.3	946.6	940.1
165°	956.0	951.7	952.4	956.8	951.0
167.5°	964.0	959.7	960.4	965.5	958.9
170°	970.5	965.5	966.2	972.0	965.5
172.5°	974.9	969.8	971.3	976.3	969.8
175°	977.8	973.4	974.2	980.0	973.4
177.5°	980.0	975.6	976.3	981.4	975.6
180°	977.8	977.8	977.8	977.8	977.8

(END OF REPORT)