

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: P1035082

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035082
REPORT IS A COMBINATION OF REPORTS P1003043 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-D
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

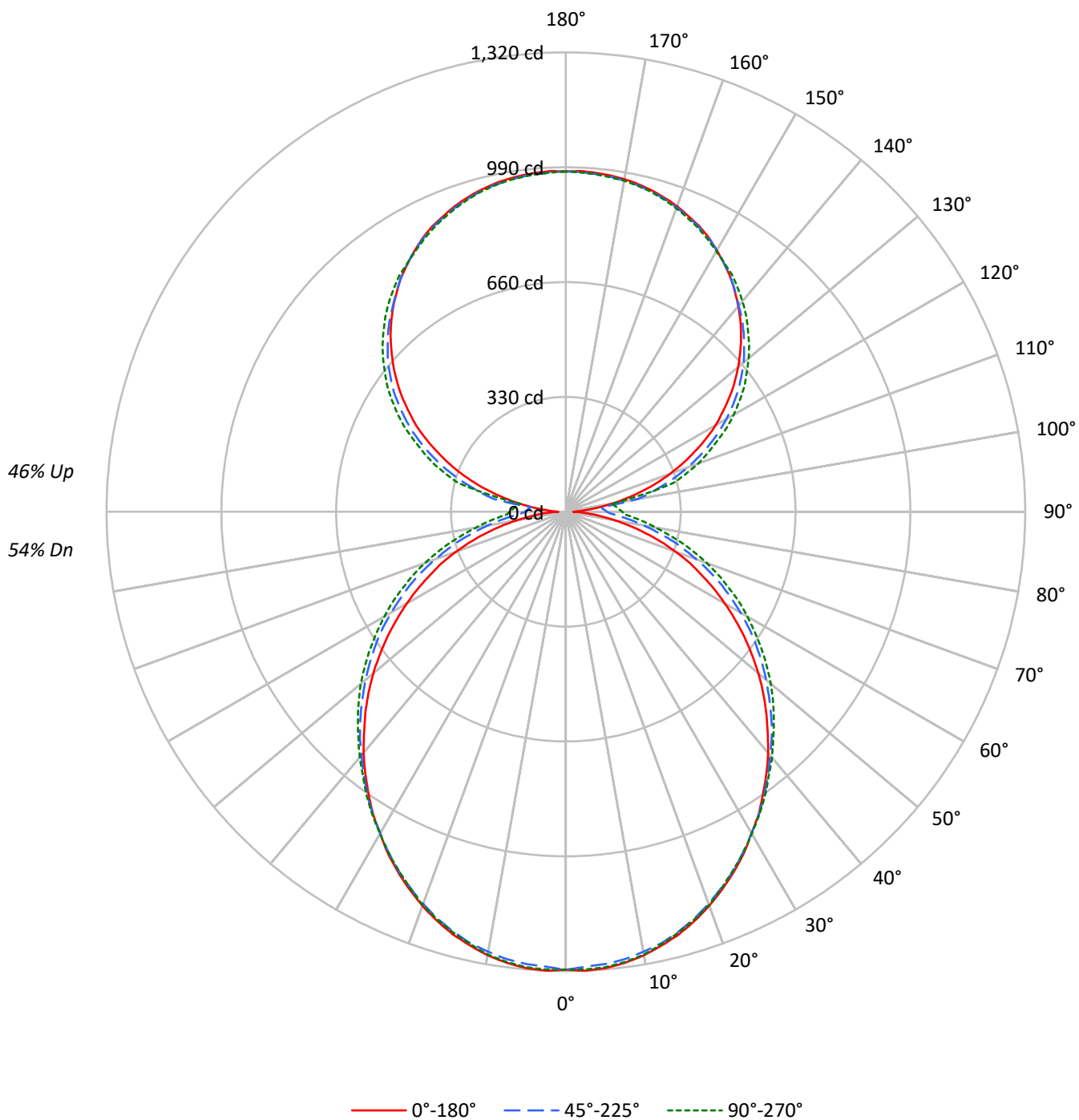
Lumens per Lamp: N/A
Luminaire Lumens: 7082.0 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60
1	98	93	89	85	91	86	83	79	74	71	69	62	60	59	52	50	49
2	89	81	74	69	82	75	69	65	64	60	56	54	51	48	45	43	41
3	81	71	63	57	75	66	59	54	56	51	47	48	44	40	40	37	34
4	74	63	54	48	68	58	51	45	50	44	40	42	38	34	35	32	29
5	68	56	47	41	62	52	44	39	45	39	34	38	33	30	32	28	25
6	62	50	42	36	58	47	39	34	40	34	30	34	30	26	29	25	22
7	58	45	37	31	53	42	35	29	36	30	26	31	26	23	26	23	20
8	53	41	33	27	49	38	31	26	33	27	23	28	24	20	24	20	18
9	50	37	30	24	46	35	28	23	30	25	21	26	22	18	22	19	16
10	47	34	27	22	43	32	25	21	28	22	19	24	20	17	21	17	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8432	8432	8432
5°	8446	8256	8275
10°	8382	8087	8064
15°	8280	7891	7804
20°	8143	7655	7545
25°	7980	7403	7233
30°	7782	7129	6949
35°	7598	6875	6687
40°	7410	6609	6423
45°	7198	6378	6185
50°	6994	6126	5971
55°	6749	5888	5722
60°	6481	5614	5467
65°	6202	5327	5180
70°	5881	4943	4881
75°	5375	4562	4516
80°	4712	4101	4112
85°	4059	3732	3899

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7198 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	1.8
10°-20°	353.5	5.0
20°-30°	525.7	7.4
30°-40°	622.6	8.8
40°-50°	643.7	9.1
50°-60°	593.0	8.4
60°-70°	479.3	6.8
70°-80°	320.7	4.5
80°-90°	167.2	2.4
90°-100°	126.6	1.8
100°-110°	289.5	4.1
110°-120°	443.5	6.3
120°-130°	536.2	7.6
130°-140°	560.0	7.9
140°-150°	517.2	7.3
150°-160°	416.5	5.9
160°-170°	269.4	3.8
170°-180°	92.9	1.3
0°-30°	1003.8	14.2
0°-40°	1626.4	23.0
0°-60°	2863.1	40.4
0°-90°	3830.4	54.1
90°-120°	859.5	12.1
90°-150°	2472.9	34.9
90°-180°	3252.0	45.9
0°-180°	7082.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1316	1316	1316	1316	1316	
5°	1316	1314	1304	1315	1314	125
15°	1257	1258	1249	1257	1252	354
25°	1142	1146	1138	1143	1137	526
35°	988	997	994	997	997	619
45°	814	828	835	844	845	628
55°	626	646	667	681	686	559
65°	431	461	492	511	516	428
75°	237	271	312	338	344	252
85°	71	114	159	187	197	74
90°	21	68	117	151	162	16
95°	58	89	106	138	147	64
105°	225	248	287	313	321	238
115°	408	420	455	475	478	404
125°	574	578	604	622	626	513
135°	712	715	723	738	740	549
145°	824	824	824	831	832	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°	1316.1	1316.1	1316.1	1316.1	1316.1
2.5°	1320.0	1317.4	1308.3	1317.4	1316.1
5°	1316.1	1313.5	1304.5	1314.8	1313.5
7.5°	1307.1	1305.8	1296.7	1305.8	1304.5
10°	1294.1	1294.1	1283.8	1292.9	1291.6
12.5°	1276.1	1277.4	1269.6	1276.1	1272.2
15°	1256.7	1258.0	1249.0	1256.7	1251.6
17.5°	1232.2	1234.8	1225.8	1232.2	1228.3
20°	1205.1	1207.7	1198.7	1202.5	1202.5
22.5°	1174.2	1179.3	1169.0	1174.2	1170.3
25°	1141.9	1145.8	1138.0	1143.2	1136.7
27.5°	1107.1	1112.2	1103.2	1107.1	1104.5
30°	1067.1	1074.8	1067.1	1069.6	1068.4
32.5°	1030.9	1037.4	1032.2	1034.8	1033.5
35°	988.4	997.4	993.5	997.4	997.4
37.5°	947.1	954.8	953.5	958.7	957.4
40°	904.5	914.8	913.5	918.7	921.3
42.5°	858.0	872.2	876.1	882.6	882.6
45°	814.2	828.4	834.8	843.8	845.1
47.5°	769.0	781.9	792.2	805.1	807.7
50°	722.6	736.7	750.9	765.1	769.0
52.5°	673.5	691.6	709.7	725.1	727.7
55°	625.8	646.4	667.1	681.3	686.4
57.5°	576.8	601.3	624.5	640.0	643.8
60°	527.7	553.5	579.3	598.7	602.6
62.5°	480.0	505.8	534.2	556.1	561.3
65°	431.0	460.6	491.6	511.0	516.1
67.5°	385.8	414.2	445.1	468.4	474.8
70°	335.5	365.1	398.7	423.2	431.0
72.5°	286.4	317.4	354.8	381.9	387.1
75°	237.4	271.0	312.2	338.1	344.5
77.5°	189.7	228.4	267.1	295.5	300.6
80°	145.8	184.5	228.4	256.8	261.9
82.5°	105.8	147.1	192.3	219.3	229.7
85°	71.0	113.5	158.7	187.1	197.4
87.5°	45.2	86.4	130.3	160.0	169.0
90°	21.3	68.4	117.4	150.7	161.9
92.5°	31.9	62.7	112.2	144.2	154.0
95°	58.1	89.4	105.8	137.8	146.8
97.5°	93.1	128.4	102.0	130.6	140.4
100°	135.2	164.5	208.7	127.8	132.6
102.5°	178.2	205.6	247.0	274.3	221.2
105°	224.7	248.3	287.0	312.8	321.1
107.5°	272.7	290.8	329.6	356.2	361.1
110°	319.2	334.7	372.3	394.7	404.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	364.2	377.9	413.6	433.9	441.4
115°	407.8	420.5	454.8	475.1	478.5
117.5°	453.7	460.1	495.3	512.9	520.4
120°	497.2	500.3	532.2	552.6	556.8
122.5°	534.3	539.2	568.3	587.5	590.9
125°	574.2	578.0	603.8	621.5	625.8
127.5°	611.3	613.6	634.8	652.8	654.7
130°	646.1	648.4	667.1	683.1	685.9
132.5°	679.6	683.9	694.7	712.7	714.2
135°	712.2	715.2	722.8	738.2	740.2
137.5°	742.6	745.7	749.4	764.8	766.4
140°	771.1	772.5	773.1	788.7	789.5
142.5°	797.9	797.3	798.8	810.4	811.2
145°	824.0	824.1	824.1	831.3	832.1
147.5°	845.9	845.9	846.6	849.9	847.4
150°	867.6	866.2	867.6	869.1	864.6
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)