

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: P1035672

Luminaire Tested: S125DIW-B850D770UB50-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035672
REPORT IS A COMBINATION OF REPORTS P1004366 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B850D770UB50-4F0-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

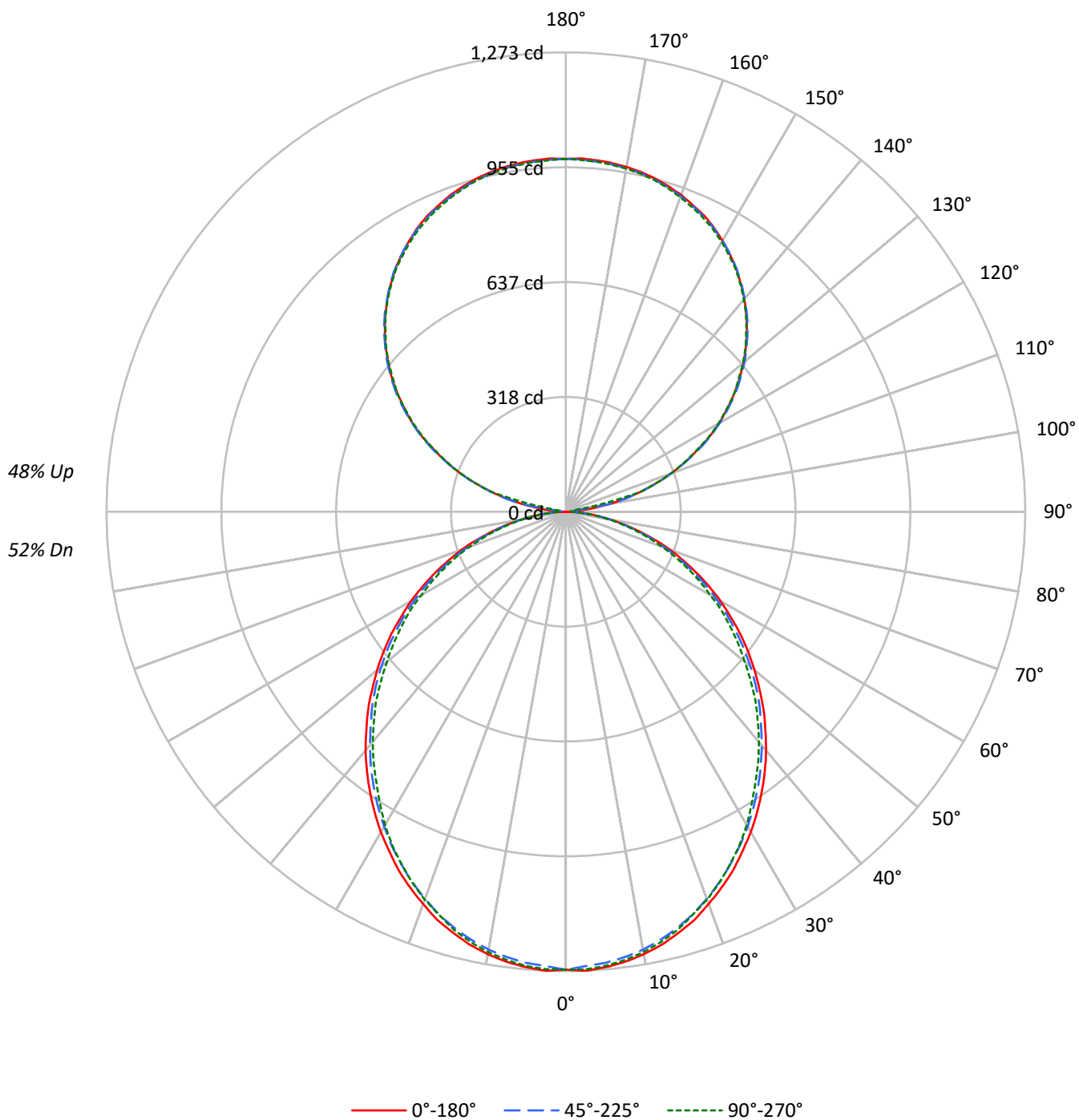
Lumens per Lamp: N/A
Luminaire Lumens: 6308.0 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 59.1
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	85	85	85	71	71	71	58	58	58
1	98	94	90	86	91	87	84	81	74	72	69	62	61	59	51	50	49
2	89	82	76	71	82	76	71	66	65	61	57	55	52	49	45	43	41
3	82	72	65	59	75	67	60	55	57	52	48	48	45	42	40	37	35
4	75	64	56	50	69	59	52	47	51	45	41	43	39	36	36	33	30
5	68	57	49	43	63	53	46	40	46	40	35	39	34	31	32	29	26
6	63	51	43	37	58	48	40	35	41	35	31	35	30	27	29	26	23
7	58	46	38	32	54	43	36	31	37	31	27	32	27	24	27	23	21
8	54	42	34	29	50	39	32	27	34	28	24	29	25	21	25	21	18
9	50	38	31	26	47	36	29	24	31	26	22	27	22	19	23	19	17
10	47	35	28	23	44	33	26	22	29	23	20	25	20	17	21	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8131	8131	8131
5°	8131	7942	7957
10°	8064	7760	7735
15°	7958	7542	7475
20°	7815	7289	7175
25°	7662	7014	6855
30°	7476	6727	6517
35°	7278	6427	6138
40°	7073	6109	5802
45°	6852	5799	5445
50°	6608	5448	5028
55°	6367	5060	4645
60°	6080	4651	4199
65°	5735	4178	3738
70°	5385	3635	3206
75°	4796	2992	2593
80°	4088	2235	1907
85°	3156	1321	1051

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6852 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	1.9
10°-20°	338.2	5.4
20°-30°	499.4	7.9
30°-40°	582.6	9.2
40°-50°	585.2	9.3
50°-60°	513.6	8.1
60°-70°	382.6	6.1
70°-80°	218.5	3.5
80°-90°	64.5	1.0
90°-100°	33.2	0.5
100°-110°	220.7	3.5
110°-120°	397.4	6.3
120°-130°	510.1	8.1
130°-140°	548.6	8.7
140°-150°	514.9	8.2
150°-160°	416.5	6.6
160°-170°	269.4	4.3
170°-180°	92.9	1.5
0°-30°	957.4	15.2
0°-40°	1540.0	24.4
0°-60°	2638.8	41.8
0°-90°	3304.4	52.4
90°-120°	651.2	10.3
90°-150°	2224.8	35.3
90°-180°	3004.0	47.6
0°-180°	6308.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1269	1269	1269	1269	1269	
5°	1267	1265	1255	1264	1263	120
15°	1208	1205	1194	1199	1199	341
25°	1096	1091	1078	1080	1077	504
35°	947	943	929	924	916	592
45°	775	771	759	747	744	597
55°	590	587	573	564	557	527
65°	399	397	386	376	372	395
75°	212	210	205	202	198	226
85°	55	56	56	55	53	60
90°	1	6	12	15	17	6
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°	1269.0	1269.0	1269.0	1269.0	1269.0
2.5°	1273.1	1270.0	1260.0	1270.0	1269.0
5°	1267.0	1265.0	1255.0	1264.0	1263.0
7.5°	1258.0	1256.0	1244.9	1254.0	1253.0
10°	1244.9	1242.9	1231.9	1239.9	1238.9
12.5°	1228.9	1224.9	1214.8	1220.8	1220.8
15°	1207.8	1204.8	1193.7	1198.8	1198.8
17.5°	1185.7	1180.7	1169.6	1175.7	1170.6
20°	1156.6	1154.6	1141.5	1148.6	1143.5
22.5°	1127.5	1123.5	1111.4	1115.4	1112.4
25°	1096.4	1091.3	1078.3	1080.3	1077.3
27.5°	1060.2	1057.2	1044.1	1045.2	1042.1
30°	1025.1	1022.1	1007.0	1005.0	1002.0
32.5°	986.9	981.9	968.8	964.8	958.8
35°	946.8	942.7	928.7	923.7	915.6
37.5°	905.6	900.6	887.5	880.5	875.5
40°	863.4	858.4	844.4	835.3	832.3
42.5°	818.2	814.2	800.2	792.1	787.1
45°	775.1	771.1	759.0	747.0	744.0
47.5°	727.9	728.9	713.8	701.8	694.8
50°	682.7	679.7	667.7	654.6	647.6
52.5°	636.5	634.5	621.5	610.4	602.4
55°	590.3	587.3	573.3	564.2	557.2
57.5°	541.1	540.1	528.1	516.0	513.0
60°	495.0	490.9	479.9	469.9	462.8
62.5°	446.8	443.8	434.7	423.7	418.7
65°	398.6	396.6	385.5	376.5	372.5
67.5°	351.4	347.4	339.3	331.3	329.3
70°	307.2	302.2	293.2	287.1	283.1
72.5°	259.0	256.0	251.0	244.0	240.0
75°	211.8	209.8	204.8	201.8	197.8
77.5°	167.7	166.7	163.6	161.6	158.6
80°	126.5	126.5	124.5	123.5	121.5
82.5°	90.4	88.4	88.4	86.3	86.3
85°	55.2	56.2	56.2	55.2	53.2
87.5°	27.1	27.1	26.1	26.1	24.1
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)