

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: P1035673

Luminaire Tested: S125DIW-B850D770UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035673
REPORT IS A COMBINATION OF REPORTS P1004367 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-F1
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

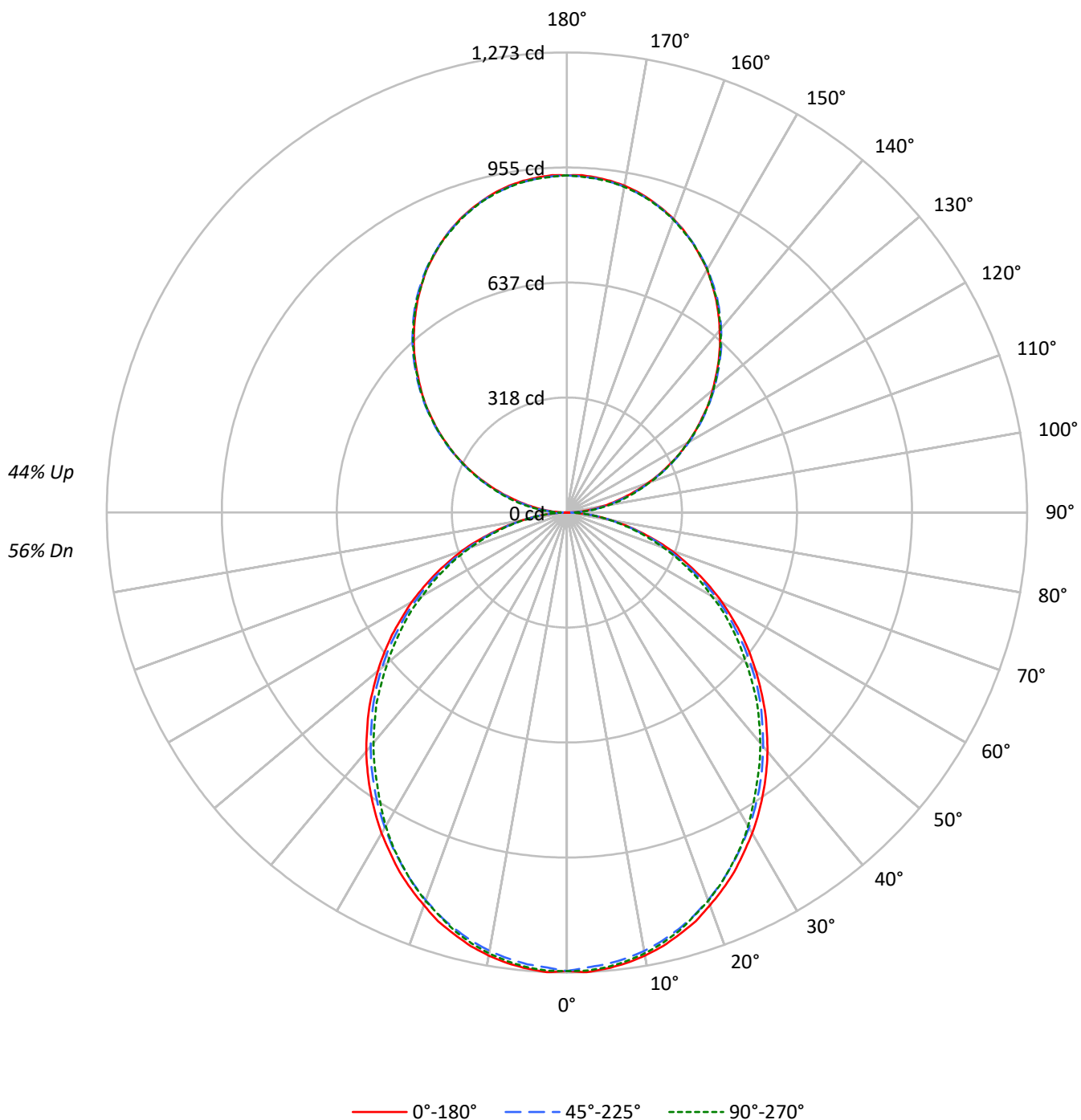
Lumens per Lamp: N/A
Luminaire Lumens: 5907.9 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62
1	99	95	91	87	92	88	85	82	76	73	71	65	63	61	54	53	52
2	90	83	76	71	84	77	72	67	66	62	59	57	54	51	48	46	44
3	82	73	65	59	76	68	61	56	59	54	49	50	46	43	42	40	37
4	75	64	56	50	70	60	53	47	52	47	42	45	40	37	38	35	32
5	69	57	49	43	64	54	46	41	47	41	36	40	36	32	34	31	28
6	64	51	43	37	59	48	41	35	42	36	32	36	32	28	31	27	25
7	59	46	38	33	55	44	36	31	38	32	28	33	28	25	28	25	22
8	55	42	34	29	51	40	33	28	35	29	25	30	26	22	26	22	20
9	51	39	31	26	47	36	29	25	32	26	22	28	23	20	24	20	18
10	48	35	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16

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	2.0
10°-20°	338.2	5.7
20°-30°	499.4	8.5
30°-40°	582.6	9.9
40°-50°	585.2	9.9
50°-60°	513.6	8.7
60°-70°	382.6	6.5
70°-80°	218.5	3.7
80°-90°	64.5	1.1
90°-100°	62.0	1.0
100°-110°	184.3	3.1
110°-120°	312.5	5.3
120°-130°	411.4	7.0
130°-140°	461.1	7.8
140°-150°	451.9	7.6
150°-160°	379.6	6.4
160°-170°	252.3	4.3
170°-180°	88.3	1.5
0°-30°	957.4	16.2
0°-40°	1540.0	26.1
0°-60°	2638.8	44.7
0°-90°	3304.4	55.9
90°-120°	558.8	9.5
90°-150°	1883.3	31.9
90°-180°	2603.0	44.1
0°-180°	5907.9	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	7
95°	47	49	56	61	62	49
105°	166	169	174	178	180	176
115°	313	316	317	316	316	310
125°	457	461	462	460	460	409
135°	594	598	599	599	596	458
145°	719	722	724	724	722	450
155°	823	823	824	827	823	379
165°	895	894	894	897	893	253
175°	931	928	928	932	927	88
180°	933	933	933	933	933	

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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°	21.8	25.4	31.9	37.0	38.5
95°	47.2	48.6	55.9	61.0	62.4
97.5°	72.6	73.3	83.5	87.8	88.6
100°	101.6	101.6	111.1	117.6	119.1
102.5°	132.9	136.5	140.1	147.4	149.5
105°	165.5	169.1	173.5	177.9	180.0
107.5°	201.1	204.7	208.4	210.5	210.5
110°	238.1	241.7	243.9	246.1	245.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	275.9	277.3	280.2	280.9	279.5
115°	312.9	315.8	317.2	316.5	315.8
117.5°	350.6	351.4	352.8	353.5	350.6
120°	385.5	389.1	389.8	389.8	386.9
122.5°	423.2	424.0	426.1	425.4	423.2
125°	456.6	461.0	461.7	460.3	459.5
127.5°	493.7	495.8	496.6	495.8	494.4
130°	526.3	530.0	531.4	530.7	529.2
132.5°	559.0	565.5	564.8	564.1	561.9
135°	593.8	598.2	598.9	598.9	596.0
137.5°	626.5	630.9	632.3	633.0	629.4
140°	657.7	661.4	663.5	665.0	661.4
142.5°	688.9	691.8	694.7	695.5	691.8
145°	719.4	722.3	724.5	724.5	722.3
147.5°	747.7	749.9	751.4	753.6	747.7
150°	776.1	775.3	778.2	778.2	776.8
152.5°	799.3	800.7	801.5	803.6	800.7
155°	823.2	823.2	824.0	826.9	823.2
157.5°	845.0	843.6	844.3	847.2	842.1
160°	863.9	861.7	862.4	865.3	861.7
162.5°	880.6	879.1	879.1	882.8	878.4
165°	895.1	893.7	894.4	897.3	892.9
167.5°	908.2	905.3	905.3	909.6	905.3
170°	918.3	915.4	915.4	919.8	914.7
172.5°	925.6	922.7	922.7	927.1	922.7
175°	930.7	927.8	927.8	932.1	927.1
177.5°	934.3	931.4	930.7	935.0	930.0
180°	932.9	932.9	932.9	932.9	932.9

(END OF REPORT)