

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: P1034679

Luminaire Tested: S125DIW-B850D770UB2750-4F0-XX-W2A-D1_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034679
REPORT IS A COMBINATION OF REPORTS P1004319 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B850D770UB2750-4F0-XX-W2A-D1_5000K
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

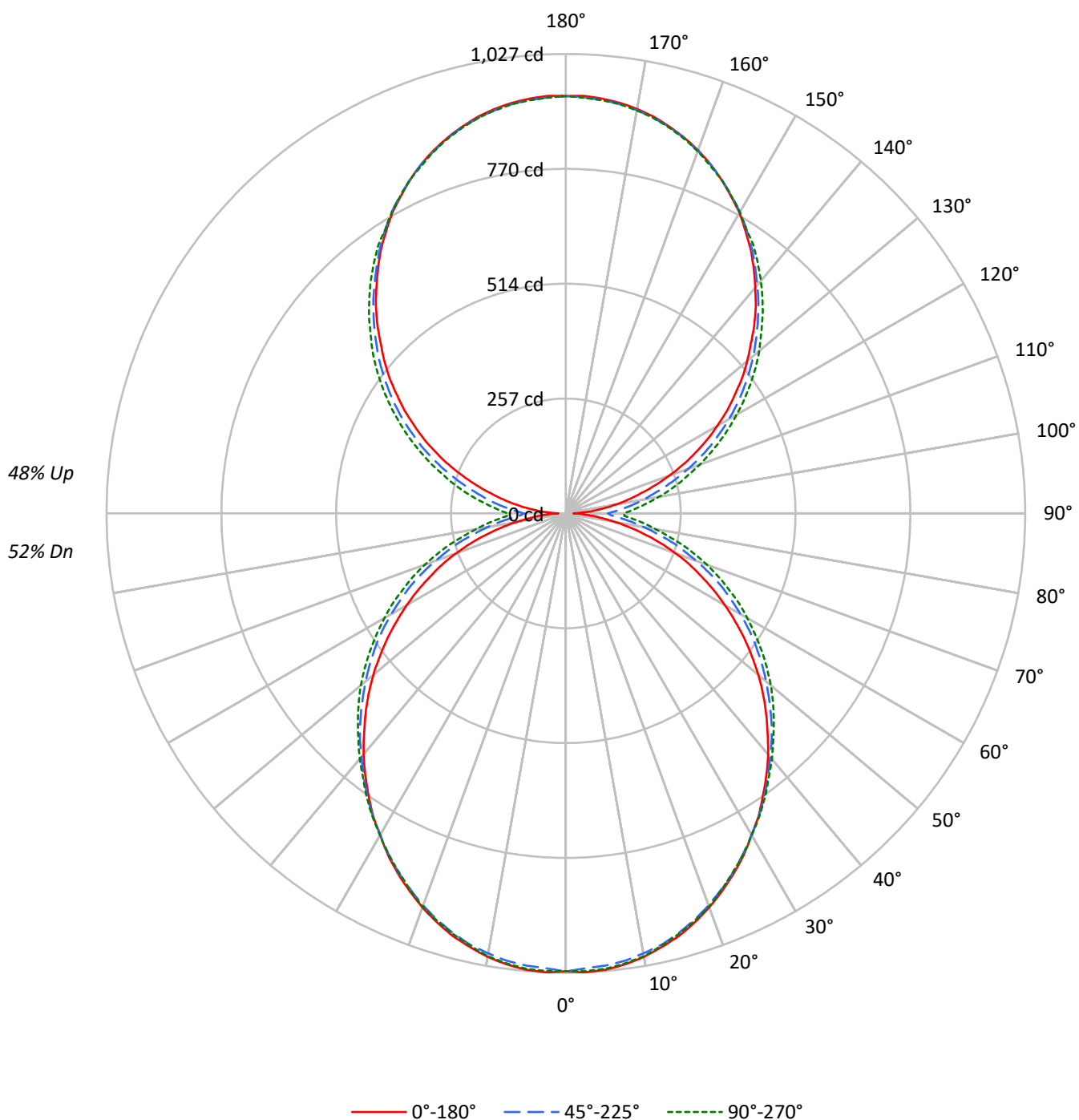
Lumens per Lamp: N/A
Luminaire Lumens: 5776.9 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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	50	30	10
RCR																				
0	108	108	108	108	99	99	99	99	84	84	84	70	70	70	58	58	58	58	58	58
1	97	93	89	85	90	86	82	79	73	70	68	61	59	57	50	48	47	47	47	47
2	88	81	74	69	81	75	69	64	63	59	55	53	50	47	43	41	39	39	39	39
3	80	71	63	57	74	65	59	53	56	50	46	47	43	39	38	35	33	33	33	33
4	73	62	54	48	67	58	50	45	49	44	39	41	37	34	34	31	28	28	28	28
5	67	55	47	41	62	51	44	38	44	38	34	37	32	29	30	27	24	24	24	24
6	62	50	41	35	57	46	39	33	40	34	29	33	29	25	28	24	21	21	21	21
7	57	45	37	31	53	42	34	29	36	30	26	30	26	22	25	22	19	19	19	19
8	53	41	33	27	49	38	31	26	33	27	23	28	23	20	23	20	17	17	17	17
9	49	37	29	24	46	35	28	23	30	24	20	25	21	18	21	18	15	15	15	15
10	46	34	27	22	43	32	25	21	28	22	18	24	19	16	20	16	14	14	14	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6560	6560	6560
5°	6571	6423	6438
10°	6522	6292	6274
15°	6443	6139	6072
20°	6335	5955	5870
25°	6208	5760	5627
30°	6055	5546	5406
35°	5911	5349	5202
40°	5765	5142	4997
45°	5599	4962	4812
50°	5442	4767	4645
55°	5251	4580	4452
60°	5043	4368	4253
65°	4825	4145	4029
70°	4575	3845	3797
75°	4182	3549	3513
80°	3665	3190	3199
85°	3156	2904	3034

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5599 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	1.7
10°-20°	275.1	4.8
20°-30°	409.0	7.1
30°-40°	484.4	8.4
40°-50°	500.8	8.7
50°-60°	461.3	8.0
60°-70°	372.9	6.5
70°-80°	249.5	4.3
80°-90°	130.4	2.3
90°-100°	134.7	2.3
100°-110°	237.8	4.1
110°-120°	348.4	6.0
120°-130°	431.7	7.5
130°-140°	469.9	8.1
140°-150°	453.7	7.9
150°-160°	379.6	6.6
160°-170°	252.3	4.4
170°-180°	88.3	1.5
0°-30°	781.0	13.5
0°-40°	1265.4	21.9
0°-60°	2227.5	38.6
0°-90°	2980.4	51.6
90°-120°	720.9	12.5
90°-150°	2076.3	35.9
90°-180°	2796.0	48.4
0°-180°	5776.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1024	1024	1024	1024	1024	
5°	1024	1022	1015	1023	1022	97
15°	978	979	972	978	974	275
25°	888	891	885	889	884	409
35°	769	776	773	776	776	481
45°	633	644	650	656	658	489
55°	487	503	519	530	534	435
65°	335	358	382	398	402	333
75°	185	211	243	263	268	196
85°	55	88	124	146	154	58
90°	17	55	94	121	130	14
95°	60	88	129	156	165	60
105°	174	194	229	253	262	186
115°	319	329	356	374	379	316
125°	461	464	485	500	504	412
135°	596	599	607	620	622	459
145°	720	722	724	730	731	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°	1023.9	1023.9	1023.9	1023.9	1023.9
2.5°	1027.0	1024.9	1017.9	1024.9	1023.9
5°	1023.9	1021.9	1014.9	1022.9	1021.9
7.5°	1016.9	1015.9	1008.9	1015.9	1014.9
10°	1006.9	1006.9	998.8	1005.9	1004.9
12.5°	992.8	993.8	987.8	992.8	989.8
15°	977.8	978.8	971.7	977.8	973.8
17.5°	958.7	960.7	953.7	958.7	955.7
20°	937.6	939.6	932.6	935.6	935.6
22.5°	913.5	917.5	909.5	913.5	910.5
25°	888.4	891.4	885.4	889.4	884.4
27.5°	861.3	865.3	858.3	861.3	859.3
30°	830.2	836.2	830.2	832.2	831.2
32.5°	802.1	807.1	803.1	805.1	804.1
35°	769.0	776.0	773.0	776.0	776.0
37.5°	736.8	742.9	741.9	745.9	744.9
40°	703.7	711.7	710.7	714.8	716.8
42.5°	667.6	678.6	681.6	686.6	686.6
45°	633.4	644.5	649.5	656.5	657.5
47.5°	598.3	608.3	616.4	626.4	628.4
50°	562.2	573.2	584.3	595.3	598.3
52.5°	524.0	538.1	552.1	564.2	566.2
55°	486.9	502.9	519.0	530.0	534.1
57.5°	448.7	467.8	485.9	497.9	500.9
60°	410.6	430.7	450.7	465.8	468.8
62.5°	373.4	393.5	415.6	432.7	436.7
65°	335.3	358.4	382.5	397.5	401.5
67.5°	300.2	322.2	346.3	364.4	369.4
70°	261.0	284.1	310.2	329.3	335.3
72.5°	222.9	247.0	276.1	297.1	301.2
75°	184.7	210.8	242.9	263.0	268.0
77.5°	147.6	177.7	207.8	229.9	233.9
80°	113.4	143.6	177.7	199.8	203.8
82.5°	82.3	114.4	149.6	170.7	178.7
85°	55.2	88.3	123.5	145.6	153.6
87.5°	35.1	67.3	101.4	124.5	131.5
90°	16.8	54.7	93.9	120.6	129.8
92.5°	35.9	68.6	110.2	137.4	145.9
95°	60.3	87.8	129.2	156.4	164.8
97.5°	84.6	109.4	152.8	178.1	186.0
100°	112.6	133.7	175.3	202.9	210.5
102.5°	142.9	165.6	200.3	227.7	235.8
105°	174.5	194.2	228.7	253.2	262.3
107.5°	209.1	226.8	259.6	281.8	287.8
110°	245.1	260.8	291.1	312.4	318.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	282.9	293.4	323.4	342.1	347.8
115°	318.9	328.9	356.4	373.7	379.0
117.5°	355.6	361.4	387.9	405.7	409.8
120°	390.5	397.1	420.9	438.0	441.1
122.5°	427.2	429.0	453.2	468.6	472.4
125°	460.6	464.0	484.8	499.5	503.7
127.5°	496.7	497.8	515.7	529.9	534.6
130°	529.3	532.0	547.5	560.8	564.3
132.5°	561.0	567.5	576.8	590.2	592.0
135°	595.8	599.2	606.9	620.0	622.1
137.5°	628.5	631.9	637.3	650.1	650.5
140°	658.7	662.4	665.5	678.1	678.5
142.5°	689.9	691.8	694.7	704.5	704.9
145°	720.4	722.3	724.5	729.5	731.3
147.5°	747.7	749.9	751.4	755.6	751.7
150°	776.1	775.3	778.2	778.2	777.8
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)