

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: P1035652

Luminaire Tested: S125DIW-B850D770UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035652
REPORT IS A COMBINATION OF REPORTS P1004336 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B850D770UB30-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

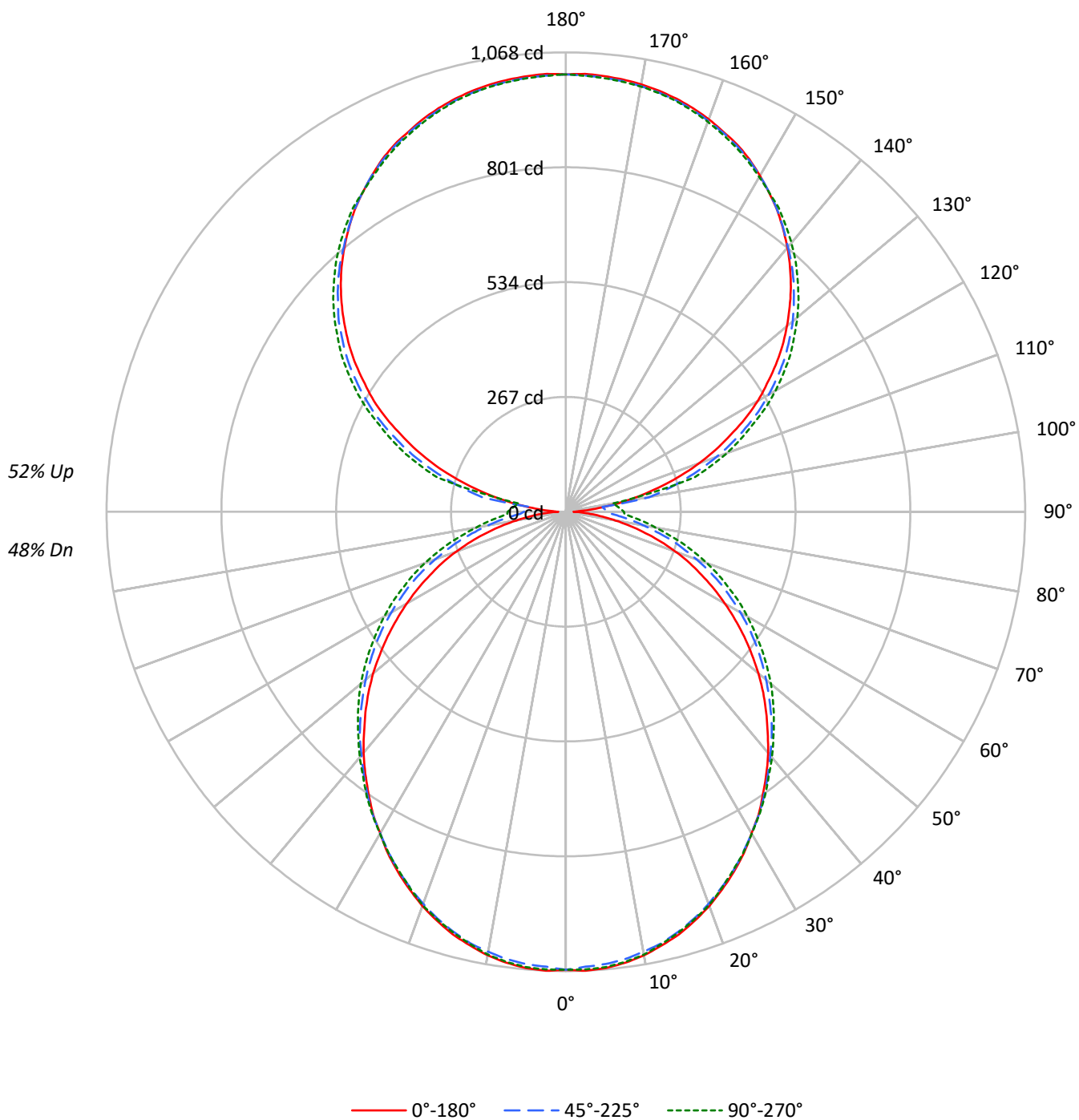
Lumens per Lamp: N/A
Luminaire Lumens: 6424.0 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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
RCR																	
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	55	55	55
1	97	92	88	84	89	85	81	78	71	69	66	59	57	55	47	46	45
2	88	80	74	68	80	74	68	63	62	58	54	51	48	45	41	39	37
3	80	70	62	56	73	65	58	53	54	49	45	45	41	38	36	33	31
4	73	62	54	47	67	57	50	44	48	43	38	40	36	32	32	29	27
5	67	55	47	41	61	51	43	38	43	37	33	36	31	28	29	26	23
6	62	49	41	35	56	46	38	33	39	33	29	32	28	24	26	23	20
7	57	44	36	31	52	41	34	29	35	29	25	29	25	22	24	20	18
8	53	40	32	27	48	37	30	25	32	26	22	27	22	19	22	19	16
9	49	37	29	24	45	34	27	23	29	24	20	25	20	17	20	17	14
10	46	34	26	21	42	31	25	20	27	22	18	23	18	15	19	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6823	6823	6823
5°	6834	6680	6697
10°	6783	6544	6525
15°	6700	6385	6315
20°	6589	6194	6106
25°	6457	5991	5853
30°	6297	5768	5623
35°	6147	5563	5411
40°	5996	5348	5197
45°	5824	5161	5005
50°	5659	4957	4832
55°	5462	4764	4630
60°	5245	4543	4424
65°	5017	4311	4191
70°	4759	3999	3949
75°	4350	3692	3654
80°	3813	3318	3327
85°	3282	3019	3155

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5824 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.8	1.6
10°-20°	286.1	4.5
20°-30°	425.4	6.6
30°-40°	503.8	7.8
40°-50°	520.9	8.1
50°-60°	479.8	7.5
60°-70°	387.9	6.0
70°-80°	259.5	4.0
80°-90°	135.7	2.1
90°-100°	110.1	1.7
100°-110°	285.2	4.4
110°-120°	450.5	7.0
120°-130°	551.6	8.6
130°-140°	579.7	9.0
140°-150°	537.3	8.4
150°-160°	433.1	6.7
160°-170°	280.1	4.4
170°-180°	96.6	1.5
0°-30°	812.3	12.6
0°-40°	1316.1	20.5
0°-60°	2316.7	36.1
0°-90°	3099.8	48.3
90°-120°	845.8	13.2
90°-150°	2514.4	39.1
90°-180°	3324.0	51.7
0°-180°	6424.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1065	1065	1065	1065	1065	
5°	1065	1063	1056	1064	1063	101
15°	1017	1018	1011	1017	1013	287
25°	924	927	921	925	920	425
35°	800	807	804	807	807	501
45°	659	670	676	683	684	508
55°	506	523	540	551	555	453
65°	349	373	398	413	418	346
75°	192	219	253	274	279	204
85°	57	92	128	151	160	60
90°	18	57	98	125	135	14
95°	57	81	88	115	122	63
105°	231	251	282	303	310	245
115°	422	433	461	477	479	419
125°	596	600	621	635	638	532
135°	740	744	749	761	762	571
145°	856	857	857	863	863	535
155°	942	938	939	942	935	434
165°	994	990	990	995	989	281
175°	1017	1012	1013	1019	1012	97
180°	1017	1017	1017	1017	1017	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1064.9	1064.9	1064.9	1064.9	1064.9
2.5°	1068.1	1066.0	1058.7	1066.0	1064.9
5°	1064.9	1062.9	1055.5	1063.9	1062.9
7.5°	1057.6	1056.6	1049.3	1056.6	1055.5
10°	1047.2	1047.2	1038.8	1046.1	1045.1
12.5°	1032.6	1033.6	1027.4	1032.6	1029.4
15°	1016.9	1018.0	1010.6	1016.9	1012.7
17.5°	997.1	999.2	991.9	997.1	993.9
20°	975.2	977.2	969.9	973.1	973.1
22.5°	950.1	954.3	945.9	950.1	947.0
25°	924.0	927.1	920.9	925.0	919.8
27.5°	895.8	900.0	892.7	895.8	893.7
30°	863.4	869.7	863.4	865.5	864.5
32.5°	834.2	839.4	835.2	837.3	836.3
35°	799.7	807.1	803.9	807.1	807.1
37.5°	766.3	772.6	771.6	775.7	774.7
40°	731.9	740.2	739.2	743.4	745.5
42.5°	694.3	705.8	708.9	714.1	714.1
45°	658.8	670.3	675.5	682.8	683.9
47.5°	622.3	632.7	641.1	651.5	653.6
50°	584.7	596.2	607.6	619.1	622.3
52.5°	545.0	559.6	574.2	586.8	588.8
55°	506.4	523.1	539.8	551.3	555.4
57.5°	466.7	486.5	505.3	517.9	521.0
60°	427.0	447.9	468.8	484.4	487.6
62.5°	388.4	409.3	432.2	450.0	454.2
65°	348.7	372.7	397.8	413.4	417.6
67.5°	312.2	335.1	360.2	379.0	384.2
70°	271.5	295.5	322.6	342.5	348.7
72.5°	231.8	256.8	287.1	309.0	313.2
75°	192.1	219.3	252.7	273.5	278.8
77.5°	153.5	184.8	216.1	239.1	243.3
80°	118.0	149.3	184.8	207.8	211.9
82.5°	85.6	119.0	155.6	177.5	185.8
85°	57.4	91.9	128.4	151.4	159.7
87.5°	36.5	70.0	105.5	129.5	136.8
90°	17.5	56.9	97.7	125.4	135.0
92.5°	28.9	52.4	93.5	120.2	128.3
95°	56.6	81.4	88.3	115.0	122.3
97.5°	93.2	122.8	85.6	109.1	117.1
100°	137.4	161.5	198.0	107.5	110.8
102.5°	182.3	205.2	239.0	261.4	204.4
105°	231.0	250.7	282.0	302.9	309.5
107.5°	281.3	295.9	327.6	349.2	352.5
110°	329.9	342.4	373.2	390.8	398.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	376.6	388.3	417.3	433.0	438.8
115°	422.4	433.4	461.3	477.1	478.9
117.5°	470.3	475.5	504.6	517.9	523.7
120°	515.5	517.9	544.2	560.4	562.9
122.5°	554.4	559.2	583.0	598.2	599.9
125°	595.9	600.1	621.0	634.7	637.6
127.5°	634.8	637.5	654.5	668.7	668.9
130°	670.9	673.7	689.1	701.4	702.8
132.5°	706.1	710.6	718.8	733.4	733.8
135°	740.0	743.5	749.4	761.3	762.0
137.5°	771.7	775.1	777.8	790.3	790.7
140°	801.5	803.0	803.4	816.4	815.9
142.5°	829.4	829.1	830.7	840.1	839.7
145°	856.5	857.0	857.0	863.0	862.7
147.5°	879.6	879.6	880.4	883.3	880.1
150°	902.3	900.8	902.3	903.8	898.7
152.5°	924.1	920.3	921.9	923.4	918.1
155°	942.2	937.7	939.2	941.5	935.4
157.5°	956.5	954.3	954.3	956.5	950.5
160°	971.6	967.1	967.8	970.9	964.8
162.5°	983.7	979.1	979.9	984.4	977.6
165°	994.2	989.7	990.4	995.0	988.9
167.5°	1002.5	998.0	998.7	1004.0	997.2
170°	1009.3	1004.0	1004.8	1010.8	1004.0
172.5°	1013.8	1008.5	1010.0	1015.3	1008.5
175°	1016.8	1012.3	1013.1	1019.1	1012.3
177.5°	1019.1	1014.6	1015.3	1020.6	1014.6
180°	1016.8	1016.8	1016.8	1016.8	1016.8

(END OF REPORT)