

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: P1034612

Luminaire Tested: S125DIW-B610D770UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034612
REPORT IS A COMBINATION OF REPORTS P1004000 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B610D770UB2750-4F0-XX-W2A-F_3500K
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

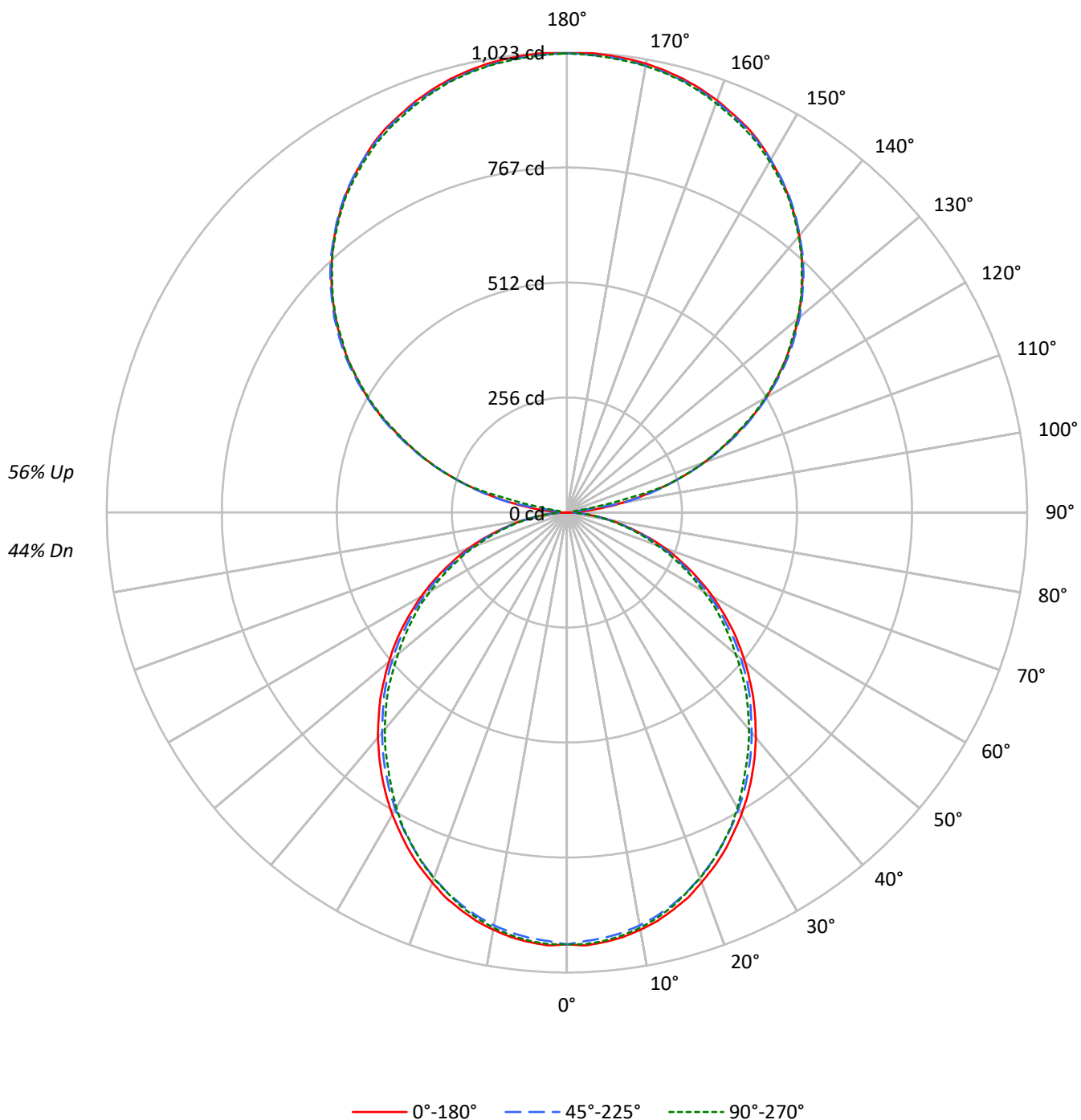
Lumens per Lamp: N/A
Luminaire Lumens: 5638.0 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 47.2
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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51			44
1	96	92	88	85	88	85	81	78	70	68	66	57	55	54	45	44	43			37
2	88	80	74	69	80	74	69	64	61	58	54	50	47	45	40	38	36			31
3	80	71	63	58	73	65	59	54	54	49	46	44	41	38	35	33	31			26
4	73	62	55	49	67	58	51	45	48	43	39	39	36	33	31	29	26			23
5	67	56	48	42	61	51	44	39	43	38	33	35	31	28	28	25	23			20
6	62	50	42	36	56	46	39	34	39	33	29	32	28	25	26	23	20			17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18			15
8	53	41	33	28	48	38	31	26	32	27	23	26	22	19	21	18	16			14
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	20	17	15			12
10	46	34	27	22	42	32	25	21	27	22	18	22	19	16	18	15	13			11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6154	6154	6154
5°	6154	6012	6023
10°	6104	5873	5855
15°	6024	5708	5657
20°	5915	5517	5431
25°	5799	5309	5188
30°	5659	5092	4933
35°	5509	4864	4646
40°	5353	4624	4392
45°	5186	4389	4121
50°	5001	4123	3805
55°	4819	3829	3515
60°	4601	3520	3178
65°	4341	3162	2829
70°	4076	2751	2427
75°	3630	2265	1962
80°	3093	1691	1443
85°	2390	1002	796

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5186 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.6	1.6
10°-20°	256.0	4.5
20°-30°	378.0	6.7
30°-40°	441.0	7.8
40°-50°	442.9	7.9
50°-60°	388.8	6.9
60°-70°	289.6	5.1
70°-80°	165.4	2.9
80°-90°	49.3	0.9
90°-100°	34.7	0.6
100°-110°	230.4	4.1
110°-120°	415.0	7.4
120°-130°	532.7	9.4
130°-140°	572.9	10.2
140°-150°	537.7	9.5
150°-160°	434.9	7.7
160°-170°	281.3	5.0
170°-180°	97.0	1.7
0°-30°	724.6	12.9
0°-40°	1165.6	20.7
0°-60°	1997.3	35.4
0°-90°	2501.5	44.4
90°-120°	680.1	12.1
90°-150°	2323.3	41.2
90°-180°	3136.0	55.6
0°-180°	5638.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	960	960	960	960	960	
5°	959	958	950	957	956	91
15°	914	912	904	907	907	258
25°	830	826	816	818	815	382
35°	717	714	703	699	693	448
45°	587	584	574	565	563	452
55°	447	444	434	427	422	399
65°	302	300	292	285	282	299
75°	160	159	155	153	150	171
85°	42	43	43	42	40	46
90°	1	7	12	16	18	5
95°	43	41	12	16	16	53
105°	222	226	226	226	225	236
115°	418	422	422	419	415	414
125°	594	600	600	596	594	531
135°	741	746	744	742	738	571
145°	859	861	861	861	857	537
155°	946	942	943	945	939	436
165°	998	994	995	999	993	282
175°	1021	1016	1017	1023	1016	97
180°	1021	1021	1021	1021	1021	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	960.5	960.5	960.5	960.5	960.5
2.5°	963.6	961.3	953.7	961.3	960.5
5°	959.0	957.5	949.9	956.7	956.0
7.5°	952.2	950.6	942.3	949.1	948.4
10°	942.3	940.8	932.4	938.5	937.7
12.5°	930.1	927.1	919.5	924.0	924.0
15°	914.2	911.9	903.5	907.3	907.3
17.5°	897.4	893.6	885.3	889.8	886.1
20°	875.4	873.9	864.0	869.3	865.5
22.5°	853.4	850.3	841.2	844.3	842.0
25°	829.8	826.0	816.1	817.7	815.4
27.5°	802.5	800.2	790.3	791.1	788.8
30°	775.9	773.6	762.2	760.7	758.4
32.5°	747.0	743.2	733.3	730.3	725.7
35°	716.6	713.6	702.9	699.1	693.0
37.5°	685.4	681.6	671.8	666.4	662.6
40°	653.5	649.7	639.1	632.2	630.0
42.5°	619.3	616.3	605.6	599.6	595.8
45°	586.6	583.6	574.5	565.4	563.1
47.5°	550.9	551.7	540.3	531.2	525.9
50°	516.7	514.5	505.3	495.5	490.1
52.5°	481.8	480.3	470.4	462.0	455.9
55°	446.8	444.5	433.9	427.1	421.7
57.5°	409.6	408.8	399.7	390.6	388.3
60°	374.6	371.6	363.2	355.6	350.3
62.5°	338.2	335.9	329.0	320.7	316.9
65°	301.7	300.2	291.8	285.0	281.9
67.5°	266.0	262.9	256.8	250.8	249.2
70°	232.5	228.7	221.9	217.3	214.3
72.5°	196.1	193.8	190.0	184.7	181.6
75°	160.3	158.8	155.0	152.7	149.7
77.5°	126.9	126.1	123.9	122.3	120.1
80°	95.7	95.7	94.2	93.5	91.9
82.5°	68.4	66.9	66.9	65.4	65.4
85°	41.8	42.6	42.6	41.8	40.3
87.5°	20.5	20.5	19.8	19.8	18.2
90°	0.8	6.8	12.1	15.9	18.2
92.5°	14.4	7.6	12.1	15.9	16.7
95°	43.1	40.9	12.1	15.9	15.9
97.5°	81.0	85.5	13.6	15.1	15.9
100°	126.4	128.7	131.7	18.9	15.9
102.5°	172.6	175.6	177.1	178.6	115.0
105°	222.5	225.6	225.6	225.6	224.8
107.5°	274.0	274.0	275.5	276.3	273.2
110°	324.0	324.0	325.5	323.2	324.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	370.9	373.2	373.9	370.9	369.4
115°	417.8	421.6	422.4	419.3	414.8
117.5°	467.0	467.0	470.0	465.5	464.0
120°	512.4	511.7	513.9	512.4	508.6
122.5°	552.5	556.3	557.1	555.6	551.0
125°	594.2	599.5	599.5	596.4	594.2
127.5°	634.3	638.1	637.3	635.8	629.7
130°	670.6	674.4	675.2	672.9	669.1
132.5°	706.9	711.5	709.2	709.2	705.4
135°	741.0	745.5	744.0	742.5	738.0
137.5°	772.8	777.3	775.8	775.8	772.0
140°	803.8	805.3	804.6	806.1	801.6
142.5°	831.8	832.6	834.1	834.1	829.6
145°	859.1	860.6	860.6	861.4	856.8
147.5°	883.3	883.3	884.1	884.8	879.5
150°	906.0	904.5	906.0	907.5	901.5
152.5°	928.0	924.2	925.7	927.2	921.9
155°	946.1	941.6	943.1	945.4	939.3
157.5°	960.5	958.2	958.2	960.5	954.5
160°	975.6	971.1	971.9	974.9	968.8
162.5°	987.8	983.2	984.0	988.5	981.7
165°	998.4	993.8	994.6	999.1	993.1
167.5°	1006.7	1002.1	1002.9	1008.2	1001.4
170°	1013.5	1008.2	1009.0	1015.0	1008.2
172.5°	1018.0	1012.7	1014.2	1019.5	1012.7
175°	1021.1	1016.5	1017.3	1023.3	1016.5
177.5°	1023.3	1018.8	1019.5	1024.8	1018.8
180°	1021.1	1021.1	1021.1	1021.1	1021.1

(END OF REPORT)