

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: P1035520

Luminaire Tested: S125DIW-B610D770UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035520
REPORT IS A COMBINATION OF REPORTS P1004028 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B610D770UB40-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

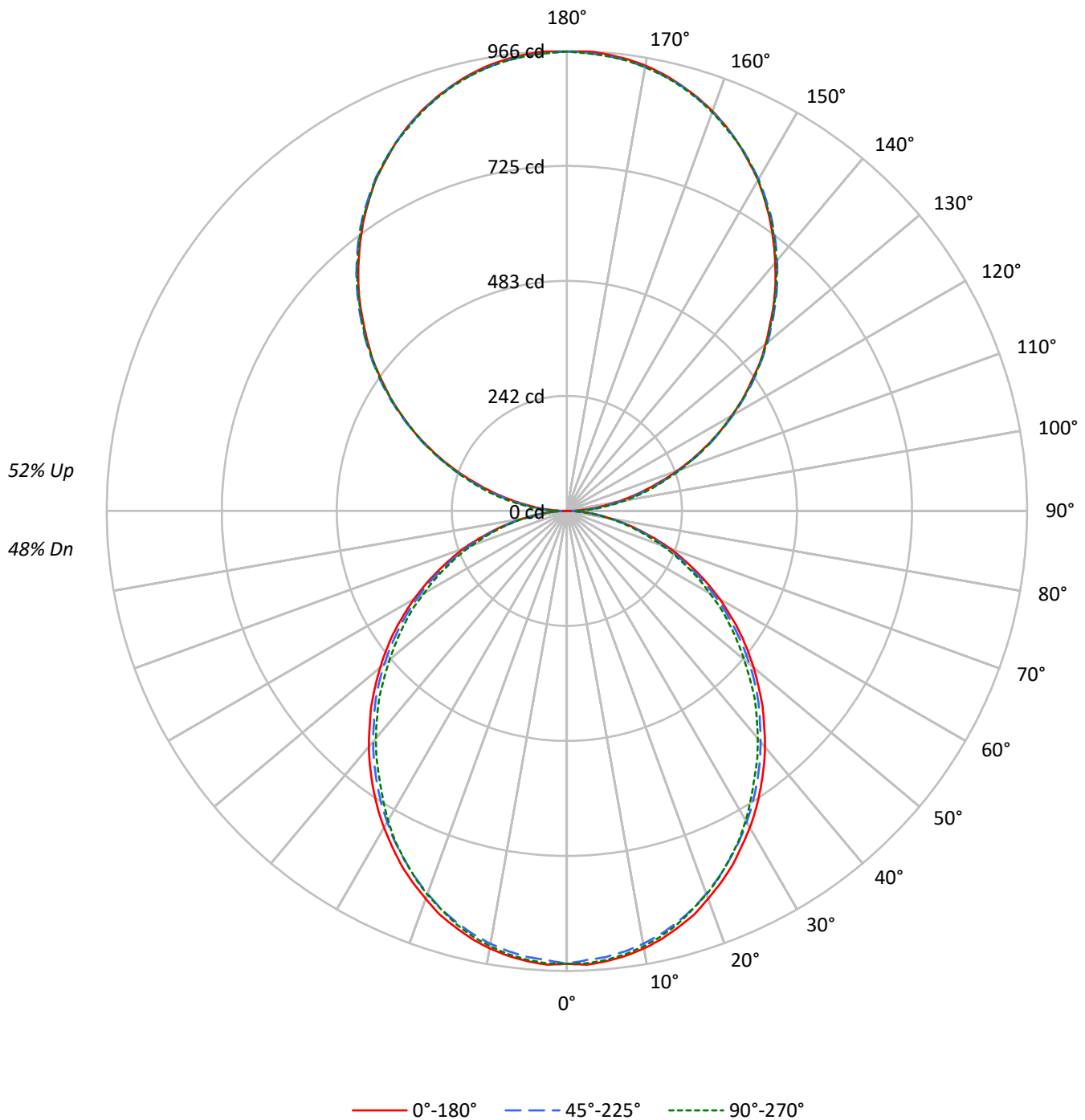
Lumens per Lamp: N/A
Luminaire Lumens: 5169.0 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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
RCR																	
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54
1	97	93	89	85	89	86	82	79	72	70	67	59	58	56	48	47	46
2	89	81	75	70	81	75	69	65	63	59	56	52	49	47	42	40	38
3	81	71	64	58	74	66	59	54	56	51	47	46	43	40	37	35	33
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	30	28
5	68	56	48	42	62	52	45	39	44	39	34	37	33	29	30	27	24
6	62	50	42	36	57	47	39	34	40	34	30	33	29	26	27	24	22
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	22	19
8	54	41	33	28	49	38	31	27	33	27	23	28	23	20	23	20	17
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6093	6093	6093
5°	6093	5951	5963
10°	6043	5815	5796
15°	5963	5652	5601
20°	5856	5462	5377
25°	5741	5256	5136
30°	5602	5041	4883
35°	5453	4816	4600
40°	5300	4577	4348
45°	5134	4345	4080
50°	4952	4082	3767
55°	4771	3791	3480
60°	4556	3485	3146
65°	4298	3131	2801
70°	4035	2724	2403
75°	3593	2243	1943
80°	3063	1675	1429
85°	2367	990	788

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5134 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	1.7
10°-20°	253.5	4.9
20°-30°	374.2	7.2
30°-40°	436.6	8.4
40°-50°	438.5	8.5
50°-60°	384.9	7.4
60°-70°	286.7	5.5
70°-80°	163.7	3.2
80°-90°	48.8	0.9
90°-100°	64.2	1.2
100°-110°	190.6	3.7
110°-120°	323.2	6.3
120°-130°	425.5	8.2
130°-140°	476.8	9.2
140°-150°	467.4	9.0
150°-160°	392.6	7.6
160°-170°	261.0	5.0
170°-180°	91.3	1.8
0°-30°	717.4	13.9
0°-40°	1154.0	22.3
0°-60°	1977.3	38.3
0°-90°	2476.5	47.9
90°-120°	578.0	11.2
90°-150°	1947.6	37.7
90°-180°	2692.0	52.1
0°-180°	5169.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	951	951	951	951	951	
5°	949	948	940	947	946	90
15°	905	903	894	898	898	255
25°	822	818	808	810	807	378
35°	709	706	696	692	686	444
45°	581	578	569	560	558	447
55°	442	440	430	423	418	395
65°	299	297	289	282	279	296
75°	159	157	154	151	148	169
85°	41	42	42	41	40	45
90°	1	7	12	16	18	6
95°	49	50	58	63	65	51
105°	171	175	179	184	186	183
115°	324	327	328	327	327	320
125°	472	477	478	476	475	423
135°	614	619	619	619	616	473
145°	744	747	749	749	747	465
155°	851	851	852	855	851	392
165°	926	924	925	928	923	261
175°	962	960	960	964	959	91
180°	965	965	965	965	965	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	950.9	950.9	950.9	950.9	950.9
2.5°	953.9	951.7	944.1	951.7	950.9
5°	949.4	947.9	940.4	947.2	946.4
7.5°	942.6	941.1	932.9	939.6	938.9
10°	932.9	931.4	923.1	929.1	928.3
12.5°	920.8	917.8	910.3	914.8	914.8
15°	905.0	902.8	894.5	898.3	898.3
17.5°	888.5	884.7	876.4	881.0	877.2
20°	866.7	865.2	855.4	860.6	856.9
22.5°	844.8	841.8	832.8	835.8	833.6
25°	821.5	817.8	808.0	809.5	807.2
27.5°	794.4	792.2	782.4	783.2	780.9
30°	768.1	765.8	754.6	753.1	750.8
32.5°	739.5	735.8	726.0	723.0	718.5
35°	709.4	706.4	695.9	692.1	686.1
37.5°	678.6	674.8	665.0	659.8	656.0
40°	647.0	643.2	632.7	625.9	623.7
42.5°	613.1	610.1	599.6	593.6	589.8
45°	580.8	577.8	568.7	559.7	557.5
47.5°	545.4	546.2	534.9	525.9	520.6
50°	511.6	509.3	500.3	490.5	485.2
52.5°	477.0	475.5	465.7	457.4	451.4
55°	442.4	440.1	429.6	422.8	417.5
57.5°	405.5	404.7	395.7	386.7	384.4
60°	370.9	367.9	359.6	352.1	346.8
62.5°	334.8	332.5	325.7	317.5	313.7
65°	298.7	297.2	288.9	282.1	279.1
67.5°	263.3	260.3	254.3	248.3	246.8
70°	230.2	226.4	219.7	215.2	212.2
72.5°	194.1	191.8	188.1	182.8	179.8
75°	158.7	157.2	153.5	151.2	148.2
77.5°	125.6	124.9	122.6	121.1	118.9
80°	94.8	94.8	93.3	92.5	91.0
82.5°	67.7	66.2	66.2	64.7	64.7
85°	41.4	42.1	42.1	41.4	39.9
87.5°	20.3	20.3	19.6	19.6	18.1
90°	0.8	6.8	12.0	15.8	18.0
92.5°	22.5	26.3	33.0	38.3	39.8
95°	48.8	50.3	57.8	63.1	64.6
97.5°	75.1	75.8	86.3	90.8	91.6
100°	105.1	105.1	114.9	121.6	123.1
102.5°	137.4	141.1	144.9	152.4	154.7
105°	171.2	174.9	179.4	183.9	186.2
107.5°	208.0	211.7	215.5	217.7	217.7
110°	246.3	250.0	252.3	254.5	253.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	285.3	286.8	289.8	290.5	289.0
115°	323.6	326.6	328.1	327.3	326.6
117.5°	362.6	363.4	364.9	365.6	362.6
120°	398.7	402.4	403.2	403.2	400.2
122.5°	437.7	438.4	440.7	439.9	437.7
125°	472.2	476.7	477.5	476.0	475.2
127.5°	510.5	512.8	513.5	512.8	511.3
130°	544.3	548.1	549.6	548.8	547.3
132.5°	578.1	584.8	584.1	583.3	581.1
135°	614.1	618.6	619.4	619.4	616.4
137.5°	647.9	652.4	653.9	654.7	650.9
140°	680.2	683.9	686.2	687.7	683.9
142.5°	712.5	715.5	718.5	719.2	715.5
145°	744.0	747.0	749.3	749.3	747.0
147.5°	773.3	775.5	777.0	779.3	773.3
150°	802.6	801.8	804.8	804.8	803.3
152.5°	826.6	828.1	828.8	831.1	828.1
155°	851.4	851.4	852.1	855.1	851.4
157.5°	873.9	872.4	873.1	876.1	870.9
160°	893.4	891.2	891.9	894.9	891.2
162.5°	910.7	909.2	909.2	912.9	908.4
165°	925.7	924.2	924.9	927.9	923.4
167.5°	939.2	936.2	936.2	940.7	936.2
170°	949.7	946.7	946.7	951.2	946.0
172.5°	957.2	954.2	954.2	958.7	954.2
175°	962.5	959.5	959.5	964.0	958.7
177.5°	966.2	963.2	962.5	967.0	961.7
180°	964.7	964.7	964.7	964.7	964.7

(END OF REPORT)