

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: P1029696

Luminaire Tested: S122DIW-B675D710UB2750-4F0-XX-W2A-D1_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029696
REPORT IS A COMBINATION OF REPORTS P986663 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B675D710UB2750-4F0-XX-W2A-D1_3000K
Description: Define 2 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

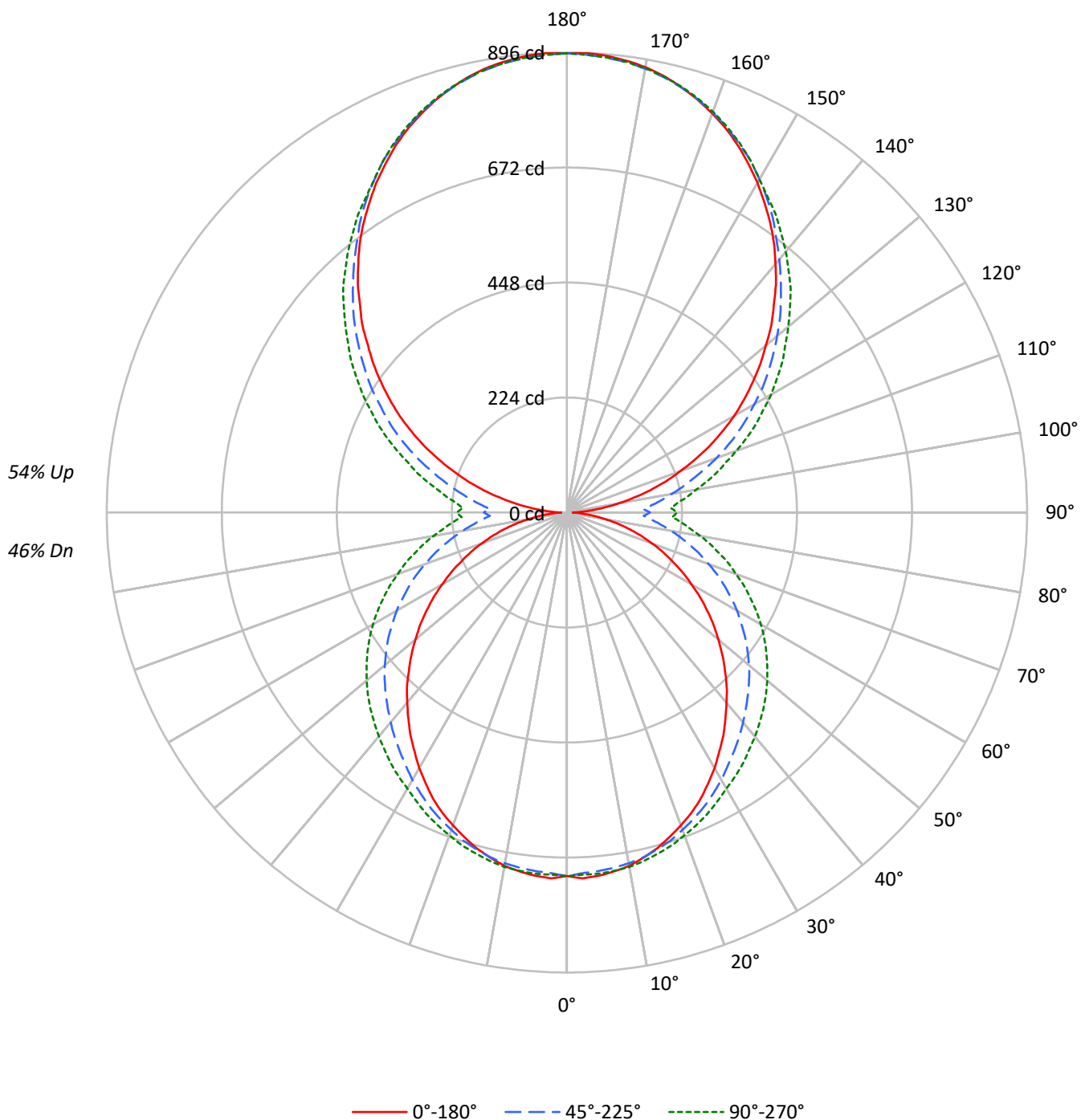
Lumens per Lamp: N/A
Luminaire Lumens: 5205.0 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	106	106	106	106	98	98	98	98	81	81	81	66	66	66	53	53	53			46
1	96	91	86	82	87	83	79	76	69	66	64	56	54	52	44	43	42			36
2	86	78	72	66	79	72	66	61	60	55	52	49	45	43	38	36	34			29
3	78	68	61	54	71	63	56	50	52	47	43	42	39	35	33	31	28			24
4	72	60	52	46	65	55	48	42	46	40	36	38	33	30	30	27	24			20
5	66	53	45	39	60	49	42	36	41	35	31	33	29	26	26	23	21			17
6	60	48	39	33	55	44	37	31	37	31	27	30	26	22	24	21	18			15
7	56	43	35	29	51	40	32	27	33	28	23	27	23	20	22	18	16			13
8	52	39	31	26	47	36	29	24	30	25	21	25	21	17	20	17	14			12
9	48	35	28	23	44	33	26	21	28	22	18	23	19	15	18	15	13			10
10	45	32	25	20	41	30	23	19	25	20	16	21	17	14	17	14	11			9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11209	11209	11209
5°	11260	10732	10671
10°	11184	10360	10209
15°	11026	9975	9734
20°	10827	9570	9284
25°	10631	9185	8876
30°	10355	8791	8472
35°	10077	8412	8175
40°	9784	8086	7880
45°	9503	7789	7624
50°	9204	7516	7369
55°	8886	7225	7111
60°	8503	6921	6840
65°	8098	6573	6527
70°	7644	6199	6192
75°	7060	5826	5874
80°	6148	5436	5546
85°	5212	5071	5260

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9503 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	1.3
10°-20°	192.5	3.7
20°-30°	291.7	5.6
30°-40°	355.2	6.8
40°-50°	382.2	7.3
50°-60°	371.2	7.1
60°-70°	324.2	6.2
70°-80°	249.5	4.8
80°-90°	169.7	3.3
90°-100°	170.6	3.3
100°-110°	260.1	5.0
110°-120°	356.5	6.8
120°-130°	426.8	8.2
130°-140°	457.3	8.8
140°-150°	437.9	8.4
150°-160°	365.5	7.0
160°-170°	242.4	4.7
170°-180°	84.7	1.6
0°-30°	551.4	10.6
0°-40°	906.6	17.4
0°-60°	1660.0	31.9
0°-90°	2403.3	46.2
90°-120°	787.2	15.1
90°-150°	2109.1	40.5
90°-180°	2802.0	53.8
0°-180°	5205.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	708	708	708	708	708	
5°	710	707	701	707	706	67
15°	677	679	679	689	688	191
25°	616	623	632	644	648	283
35°	531	548	568	590	597	332
45°	435	463	499	531	541	336
55°	334	370	424	461	474	298
65°	228	278	339	381	394	226
75°	126	184	249	294	307	134
85°	37	101	166	209	224	39
90°	11	80	162	201	214	10
95°	47	103	166	205	216	50
105°	167	199	254	292	303	177
115°	306	322	366	397	406	302
125°	441	448	479	504	513	395
135°	569	578	589	610	616	440
145°	690	695	700	707	709	431
155°	789	791	793	797	795	363
165°	858	857	857	863	859	242
175°	893	891	889	894	890	85
180°	894	894	894	894	894	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	708.1	708.1	708.1	708.1	708.1
2.5°	713.3	710.2	703.0	708.1	706.1
5°	710.2	707.1	701.0	707.1	706.1
7.5°	705.1	703.0	697.9	705.1	704.0
10°	698.9	696.8	693.8	702.0	701.0
12.5°	688.6	689.7	687.6	695.8	694.8
15°	677.3	679.4	679.4	688.6	687.6
17.5°	663.0	667.1	670.2	679.4	679.4
20°	648.6	653.7	657.8	669.1	669.1
22.5°	633.2	639.4	645.5	656.8	658.9
25°	615.8	623.0	632.2	644.5	647.6
27.5°	595.2	606.5	616.8	632.2	634.2
30°	574.7	588.1	601.4	617.8	620.9
32.5°	552.1	567.5	584.0	603.5	609.6
35°	530.6	548.0	567.5	590.1	597.3
37.5°	507.0	526.5	551.1	575.7	582.9
40°	483.4	506.0	533.7	560.4	569.6
42.5°	460.8	483.4	516.2	546.0	555.2
45°	435.1	462.9	498.8	530.6	540.9
47.5°	410.5	440.3	481.3	514.2	525.5
50°	384.9	416.7	462.9	497.7	509.0
52.5°	360.2	394.1	443.4	479.3	491.6
55°	333.5	370.5	423.9	460.8	474.1
57.5°	307.9	348.9	402.3	442.3	455.7
60°	280.2	324.3	382.8	421.8	436.2
62.5°	255.5	301.7	360.2	402.3	415.6
65°	227.8	278.1	338.7	380.8	394.1
67.5°	203.2	255.5	317.1	359.2	373.6
70°	176.5	229.9	293.5	337.6	350.0
72.5°	151.9	207.3	272.0	315.1	330.5
75°	126.2	183.7	249.4	293.5	306.9
77.5°	101.6	161.1	227.8	272.0	286.3
80°	77.0	139.6	206.3	249.4	263.8
82.5°	56.4	118.0	185.8	228.9	242.2
85°	36.9	100.6	166.3	209.4	223.7
87.5°	22.6	84.2	149.8	191.9	205.3
90°	11.1	79.6	161.9	201.4	214.5
92.5°	25.8	86.2	149.6	190.5	202.8
95°	47.4	103.2	166.3	205.3	216.1
97.5°	72.9	123.8	186.3	224.3	236.6
100°	103.1	147.1	206.8	244.8	255.3
102.5°	133.7	172.1	230.5	268.3	278.8
105°	167.4	199.4	254.3	291.8	303.1
107.5°	202.1	229.8	281.1	316.8	324.3
110°	234.3	259.3	309.6	342.5	351.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	270.5	291.4	337.9	368.5	378.3
115°	306.0	321.8	366.5	396.6	405.6
117.5°	340.5	354.7	394.0	422.6	430.5
120°	375.9	386.1	421.0	449.8	458.9
122.5°	408.4	416.9	451.2	476.6	484.3
125°	441.4	448.1	478.7	504.1	512.6
127.5°	474.6	481.8	506.4	529.1	536.1
130°	505.5	514.2	534.3	557.4	562.6
132.5°	540.2	546.7	562.8	582.7	588.6
135°	569.3	577.6	589.4	610.2	616.2
137.5°	602.5	609.3	616.0	634.8	638.9
140°	632.0	637.7	643.6	660.0	663.1
142.5°	662.1	667.9	670.2	683.3	685.3
145°	689.8	695.1	699.6	706.6	708.7
147.5°	715.5	722.3	725.3	727.8	727.9
150°	741.9	746.4	749.4	751.7	749.4
152.5°	765.3	769.8	773.6	776.6	773.6
155°	788.7	791.0	793.2	797.0	794.7
157.5°	809.1	810.6	812.1	817.4	813.6
160°	827.2	828.7	829.5	834.0	831.0
162.5°	843.8	843.8	844.5	849.8	846.1
165°	858.1	857.4	857.4	862.7	858.9
167.5°	871.0	868.7	868.7	874.0	870.2
170°	880.8	878.5	877.8	883.0	878.5
172.5°	887.6	885.3	884.5	889.8	885.3
175°	892.8	890.6	889.1	894.4	889.8
177.5°	895.9	893.6	892.1	896.6	892.1
180°	894.4	894.4	894.4	894.4	894.4

(END OF REPORT)