

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: P1029680

Luminaire Tested: S122DIW-B675D435UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029680
REPORT IS A COMBINATION OF REPORTS P986597 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B675D435UB2750-4F0-XX-W2A-F_2700K
Description: Define 2 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

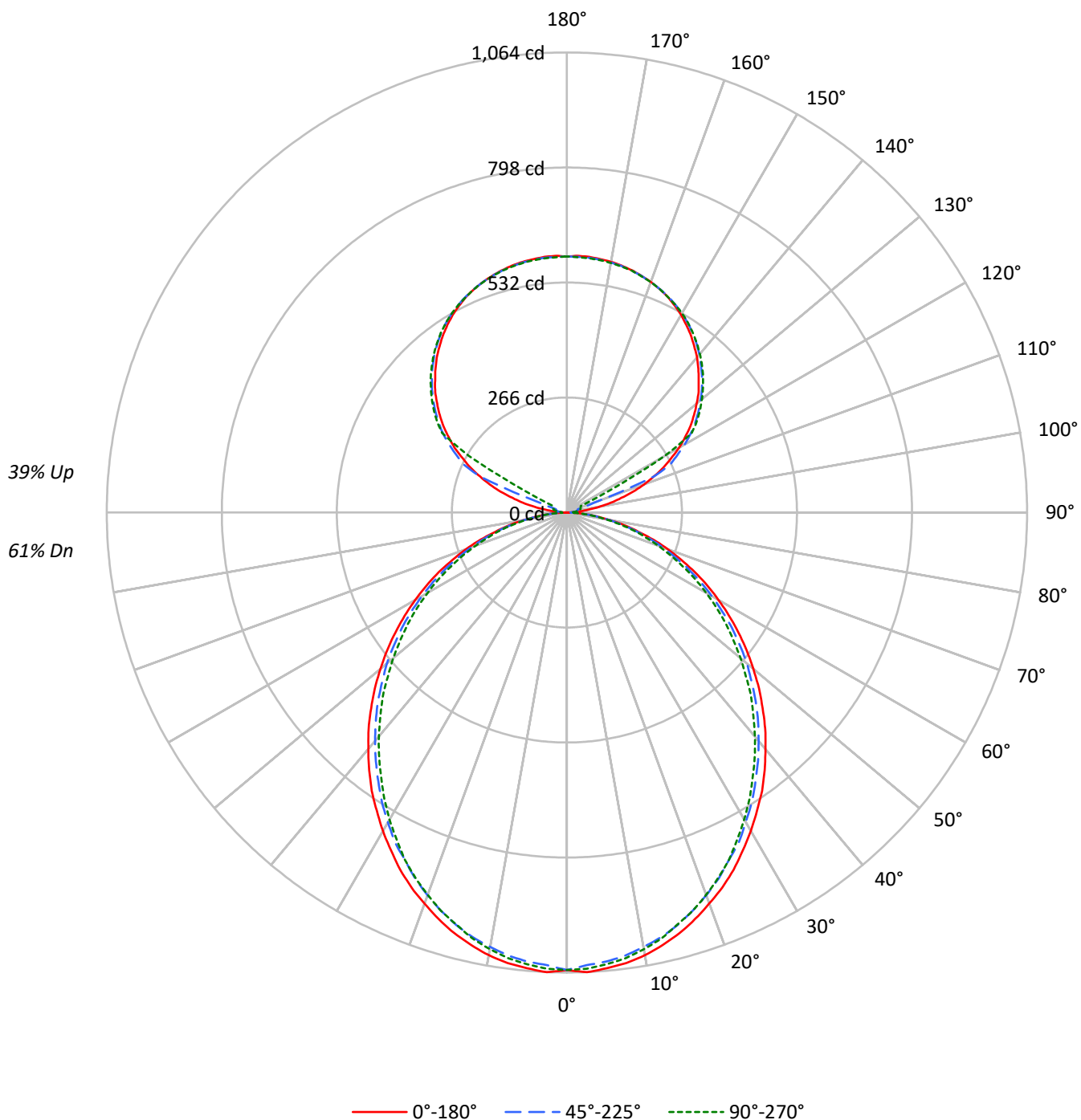
Lumens per Lamp: N/A
Luminaire Lumens: 4429.0 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 49.1
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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66
1	100	96	92	88	94	90	86	83	78	76	73	68	66	64	58	57	56
2	91	84	77	72	85	79	73	68	69	65	61	60	57	54	51	49	47
3	83	74	66	60	78	69	62	57	61	55	51	53	49	46	46	43	40
4	76	65	57	51	71	61	54	49	54	48	44	47	43	39	41	37	35
5	70	58	50	44	65	55	47	42	48	42	38	42	38	34	37	33	30
6	65	52	44	38	60	49	42	36	44	38	33	38	33	30	33	30	27
7	60	47	39	33	56	45	37	32	40	34	29	35	30	26	30	27	24
8	56	43	35	30	52	41	33	28	36	30	26	32	27	24	28	24	21
9	52	39	32	27	48	37	30	25	33	27	23	29	25	21	26	22	19
10	48	36	29	24	45	34	27	23	31	25	21	27	23	19	24	20	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16749	16749	16749
5°	16776	15964	15853
10°	16640	15238	14936
15°	16396	14504	13971
20°	16067	13707	13057
25°	15738	12875	12146
30°	15326	12092	11188
35°	14937	11266	10249
40°	14455	10451	9361
45°	13978	9644	8489
50°	13454	8821	7586
55°	12905	7942	6730
60°	12287	6990	5840
65°	11610	6022	4904
70°	10749	4963	3959
75°	9560	3826	3057
80°	8119	2601	1968
85°	5890	1211	837

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13978 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	2.2
10°-20°	280.2	6.3
20°-30°	411.8	9.3
30°-40°	478.3	10.8
40°-50°	477.7	10.8
50°-60°	416.5	9.4
60°-70°	307.9	7.0
70°-80°	174.2	3.9
80°-90°	47.0	1.1
90°-100°	19.5	0.4
100°-110°	72.8	1.6
110°-120°	193.0	4.4
120°-130°	320.2	7.2
130°-140°	340.1	7.7
140°-150°	316.1	7.1
150°-160°	254.1	5.7
160°-170°	163.8	3.7
170°-180°	56.4	1.3
0°-30°	791.6	17.9
0°-40°	1269.8	28.7
0°-60°	2164.0	48.9
0°-90°	2693.0	60.8
90°-120°	285.4	6.4
90°-150°	1261.7	28.5
90°-180°	1736.0	39.2
0°-180°	4429.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1058	1058	1058	1058	1058	
5°	1058	1054	1043	1051	1049	100
15°	1007	1001	988	992	987	284
25°	912	904	886	888	886	419
35°	786	776	760	754	749	491
45°	640	633	618	606	602	494
55°	484	478	466	454	449	433
65°	327	320	310	301	296	323
75°	171	169	164	158	160	182
85°	42	41	40	37	36	46
90°	0	5	9	11	12	4
95°	28	14	17	19	18	33
105°	130	143	26	31	33	139
115°	246	254	264	66	35	243
125°	348	354	362	365	366	311
135°	431	438	442	446	445	333
145°	500	500	507	510	508	313
155°	551	547	552	554	551	254
165°	580	578	579	582	579	164
175°	593	590	591	594	590	56
180°	592	592	592	592	592	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1058.1	1058.1	1058.1	1058.1	1058.1
2.5°	1064.2	1059.1	1047.9	1058.1	1056.1
5°	1058.1	1054.0	1042.8	1051.0	1049.0
7.5°	1051.0	1044.9	1033.7	1041.8	1039.8
10°	1039.8	1032.7	1020.5	1028.6	1025.6
12.5°	1024.5	1018.4	1006.2	1011.3	1009.3
15°	1007.2	1001.1	987.9	992.0	986.9
17.5°	985.9	979.8	966.5	971.6	966.5
20°	962.5	956.4	942.1	945.2	941.1
22.5°	939.1	929.9	916.7	916.7	914.7
25°	911.6	903.5	886.2	888.2	886.2
27.5°	881.1	874.0	860.7	857.7	852.6
30°	850.6	842.4	827.2	824.1	820.0
32.5°	818.0	811.9	795.6	789.5	785.4
35°	786.5	776.3	760.0	753.9	748.8
37.5°	750.9	741.7	725.4	718.3	713.2
40°	714.2	706.1	689.8	680.6	676.6
42.5°	678.6	670.5	654.2	644.0	637.9
45°	640.0	632.8	617.6	606.4	602.3
47.5°	602.3	595.2	578.9	567.7	561.6
50°	562.6	557.5	543.3	529.1	524.0
52.5°	524.0	516.8	503.6	492.4	485.3
55°	484.3	478.2	466.0	453.8	448.7
57.5°	444.6	439.5	426.3	414.1	410.0
60°	404.9	400.9	386.6	375.4	372.4
62.5°	366.3	359.1	349.0	338.8	334.7
65°	326.6	320.5	310.3	301.2	296.1
67.5°	285.9	280.8	271.6	264.5	260.5
70°	248.2	244.2	235.0	227.9	223.8
72.5°	209.6	205.5	200.4	193.3	190.3
75°	170.9	168.9	163.8	157.7	159.7
77.5°	136.3	132.3	130.2	127.2	124.1
80°	101.7	100.7	98.7	95.6	93.6
82.5°	69.2	69.2	68.2	64.1	64.1
85°	41.7	40.7	39.7	36.6	35.6
87.5°	18.3	16.3	14.2	11.2	10.2
90°	0.4	5.1	8.6	10.7	11.6
92.5°	10.7	9.0	10.3	11.1	11.6
95°	27.9	13.7	16.7	18.9	18.4
97.5°	50.1	15.0	21.9	23.1	23.6
100°	75.8	17.1	24.4	27.9	28.7
102.5°	104.1	103.3	25.3	30.0	31.3
105°	130.3	143.1	26.1	30.8	32.6
107.5°	160.7	171.4	27.0	31.7	33.4
110°	189.8	198.8	75.0	32.1	33.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	217.2	224.9	217.7	33.0	34.3
115°	246.4	253.7	264.4	66.0	35.1
117.5°	271.6	280.2	287.5	226.2	114.0
120°	299.9	306.4	314.1	319.2	261.4
122.5°	323.9	330.8	339.3	341.9	342.3
125°	348.3	353.9	362.1	365.1	366.3
127.5°	370.6	376.6	383.1	387.3	387.8
130°	391.6	398.5	403.2	407.9	407.5
132.5°	413.0	418.6	423.3	427.2	426.8
135°	431.0	437.9	441.8	446.0	445.2
137.5°	449.9	455.0	459.3	463.6	462.3
140°	468.3	471.7	476.5	480.3	478.2
142.5°	483.7	486.7	492.3	495.7	493.6
145°	500.0	499.6	506.9	509.9	507.7
147.5°	514.2	512.9	520.2	522.3	520.6
150°	527.9	524.9	531.7	534.3	532.2
152.5°	539.4	536.0	542.4	545.0	542.0
155°	550.6	546.7	551.9	554.4	551.0
157.5°	559.6	556.2	560.0	563.0	559.6
160°	567.3	564.7	567.3	569.9	566.9
162.5°	574.1	571.6	573.7	576.7	572.9
165°	580.1	577.6	578.9	581.9	578.9
167.5°	584.9	582.3	583.6	586.6	582.7
170°	588.7	586.1	587.0	590.0	586.1
172.5°	591.3	588.7	589.6	592.6	588.7
175°	593.4	590.4	591.3	594.3	590.0
177.5°	594.3	591.3	591.7	594.7	590.9
180°	592.1	592.1	592.1	592.1	592.1

(END OF REPORT)