

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: P1029683

Luminaire Tested: S122DIW-B675D435UB2750-4F0-XX-W2A-F_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029683
REPORT IS A COMBINATION OF REPORTS P986600 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_4000K
Description: Define 2 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

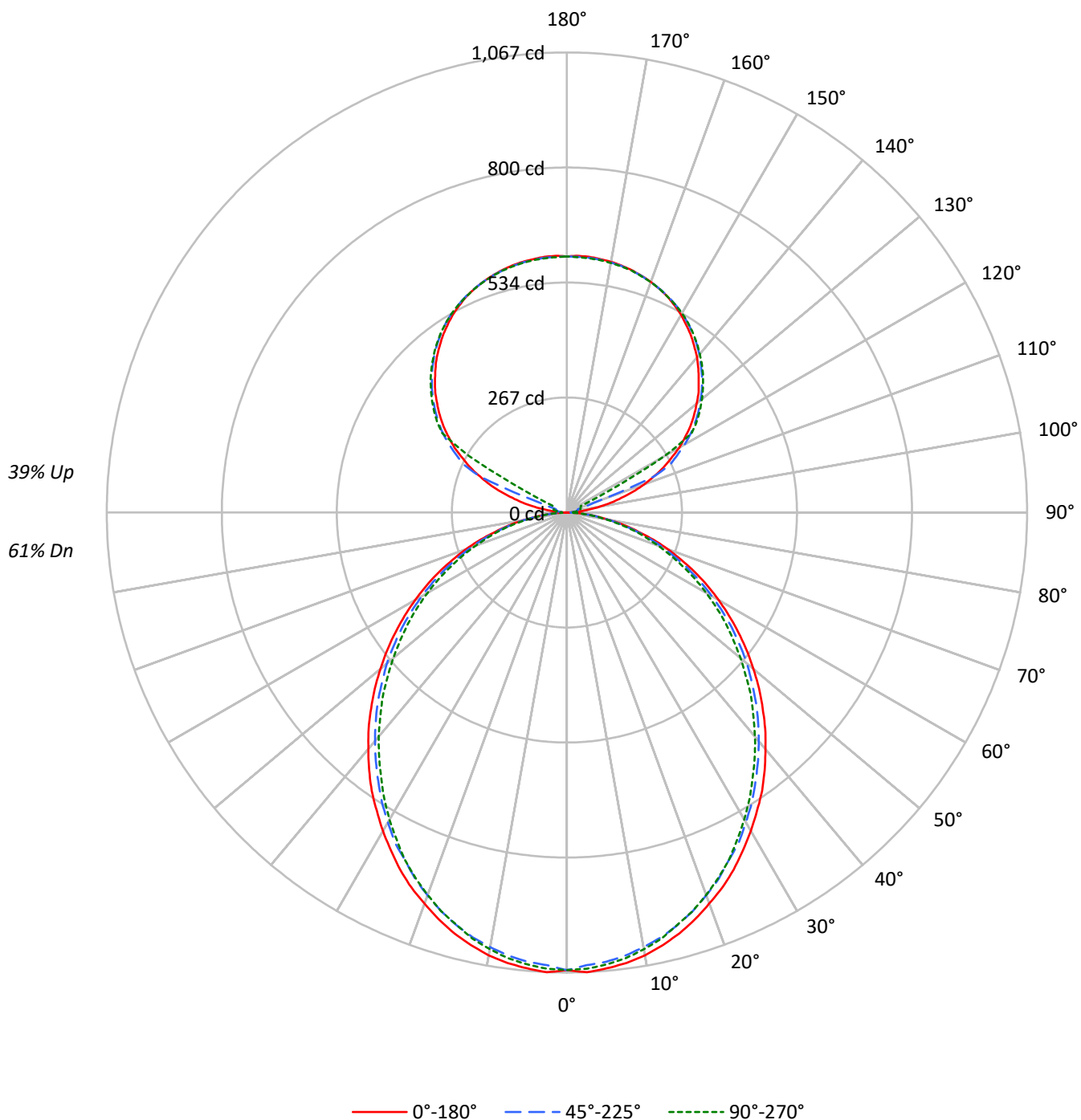
Lumens per Lamp: N/A
Luminaire Lumens: 4442.0 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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°	16800	16800	16800
5°	16827	16012	15899
10°	16689	15283	14979
15°	16445	14547	14012
20°	16114	13747	13096
25°	15785	12913	12182
30°	15371	12127	11222
35°	14981	11300	10279
40°	14497	10483	9388
45°	14019	9672	8515
50°	13494	8847	7608
55°	12942	7966	6749
60°	12323	7011	5857
65°	11646	6040	4917
70°	10783	4978	3972
75°	9588	3838	3066
80°	8143	2609	1974
85°	5905	1214	839

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14019 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	2.2
10°-20°	281.0	6.3
20°-30°	413.0	9.3
30°-40°	479.7	10.8
40°-50°	479.1	10.8
50°-60°	417.7	9.4
60°-70°	308.8	7.0
70°-80°	174.7	3.9
80°-90°	47.1	1.1
90°-100°	19.6	0.4
100°-110°	73.0	1.6
110°-120°	193.6	4.4
120°-130°	321.1	7.2
130°-140°	341.1	7.7
140°-150°	317.0	7.1
150°-160°	254.9	5.7
160°-170°	164.2	3.7
170°-180°	56.5	1.3
0°-30°	793.9	17.9
0°-40°	1273.6	28.7
0°-60°	2170.4	48.9
0°-90°	2701.0	60.8
90°-120°	286.2	6.4
90°-150°	1265.3	28.5
90°-180°	1741.0	39.2
0°-180°	4442.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1061	1061	1061	1061	1061	
5°	1061	1057	1046	1054	1052	101
15°	1010	1004	991	995	990	285
25°	914	906	889	891	889	421
35°	789	779	762	756	751	493
45°	642	635	619	608	604	495
55°	486	480	467	455	450	434
65°	328	321	311	302	297	324
75°	171	169	164	158	160	183
85°	42	41	40	37	36	47
90°	0	5	9	11	12	4
95°	28	14	17	19	18	33
105°	131	144	26	31	33	140
115°	247	254	265	66	35	243
125°	349	355	363	366	367	312
135°	432	439	443	447	446	334
145°	502	501	508	511	509	314
155°	552	548	554	556	553	254
165°	582	579	580	584	580	164
175°	595	592	593	596	592	57
180°	594	594	594	594	594	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1061.3	1061.3	1061.3	1061.3	1061.3
2.5°	1067.4	1062.3	1051.0	1061.3	1059.2
5°	1061.3	1057.2	1045.9	1054.1	1052.1
7.5°	1054.1	1048.0	1036.8	1044.9	1042.9
10°	1042.9	1035.7	1023.5	1031.7	1028.6
12.5°	1027.6	1021.5	1009.2	1014.3	1012.3
15°	1010.2	1004.1	990.8	994.9	989.8
17.5°	988.8	982.7	969.4	974.5	969.4
20°	965.3	959.2	944.9	948.0	943.9
22.5°	941.9	932.7	919.4	919.4	917.4
25°	914.3	906.1	888.8	890.8	888.8
27.5°	883.7	876.6	863.3	860.2	855.1
30°	853.1	844.9	829.6	826.6	822.5
32.5°	820.4	814.3	798.0	791.9	787.8
35°	788.8	778.6	762.3	756.1	751.0
37.5°	753.1	743.9	727.6	720.4	715.3
40°	716.3	708.2	691.9	682.7	678.6
42.5°	680.6	672.5	656.1	645.9	639.8
45°	641.9	634.7	619.4	608.2	604.1
47.5°	604.1	597.0	580.6	569.4	563.3
50°	564.3	559.2	544.9	530.6	525.5
52.5°	525.5	518.4	505.1	493.9	486.7
55°	485.7	479.6	467.4	455.1	450.0
57.5°	445.9	440.8	427.6	415.3	411.2
60°	406.1	402.1	387.8	376.5	373.5
62.5°	367.4	360.2	350.0	339.8	335.7
65°	327.6	321.4	311.2	302.0	296.9
67.5°	286.7	281.6	272.5	265.3	261.2
70°	249.0	244.9	235.7	228.6	224.5
72.5°	210.2	206.1	201.0	193.9	190.8
75°	171.4	169.4	164.3	158.2	160.2
77.5°	136.7	132.7	130.6	127.6	124.5
80°	102.0	101.0	99.0	95.9	93.9
82.5°	69.4	69.4	68.4	64.3	64.3
85°	41.8	40.8	39.8	36.7	35.7
87.5°	18.4	16.3	14.3	11.2	10.2
90°	0.4	5.2	8.6	10.7	11.6
92.5°	10.7	9.0	10.3	11.2	11.6
95°	27.9	13.8	16.8	18.9	18.5
97.5°	50.3	15.0	21.9	23.2	23.6
100°	76.1	17.2	24.5	27.9	28.8
102.5°	104.4	103.6	25.4	30.1	31.4
105°	130.6	143.5	26.2	30.9	32.7
107.5°	161.1	171.9	27.1	31.8	33.5
110°	190.4	199.4	75.2	32.2	33.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	217.9	225.6	218.3	33.1	34.4
115°	247.1	254.4	265.1	66.2	35.2
117.5°	272.4	281.0	288.3	226.9	114.3
120°	300.8	307.2	315.0	320.1	262.1
122.5°	324.9	331.7	340.3	342.9	343.3
125°	349.3	354.9	363.1	366.1	367.4
127.5°	371.7	377.7	384.2	388.5	388.9
130°	392.7	399.6	404.3	409.1	408.6
132.5°	414.2	419.8	424.5	428.4	428.0
135°	432.3	439.2	443.0	447.3	446.5
137.5°	451.2	456.3	460.6	464.9	463.6
140°	469.7	473.1	477.8	481.7	479.5
142.5°	485.1	488.1	493.7	497.2	495.0
145°	501.5	501.0	508.3	511.3	509.2
147.5°	515.6	514.4	521.7	523.8	522.1
150°	529.4	526.4	533.3	535.8	533.7
152.5°	541.0	537.6	544.0	546.6	543.6
155°	552.2	548.3	553.5	556.0	552.6
157.5°	561.2	557.8	561.6	564.6	561.2
160°	568.9	566.3	568.9	571.5	568.5
162.5°	575.8	573.2	575.4	578.4	574.5
165°	581.8	579.2	580.5	583.5	580.5
167.5°	586.5	584.0	585.3	588.3	584.4
170°	590.4	587.8	588.7	591.7	587.8
172.5°	593.0	590.4	591.3	594.3	590.4
175°	595.1	592.1	593.0	596.0	591.7
177.5°	596.0	593.0	593.4	596.4	592.6
180°	593.8	593.8	593.8	593.8	593.8

(END OF REPORT)