

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: P1029676

Luminaire Tested: S122DIW-B675D435UB2750-4F0-XX-W2A-F1_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029676
REPORT IS A COMBINATION OF REPORTS P986588 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-F1_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

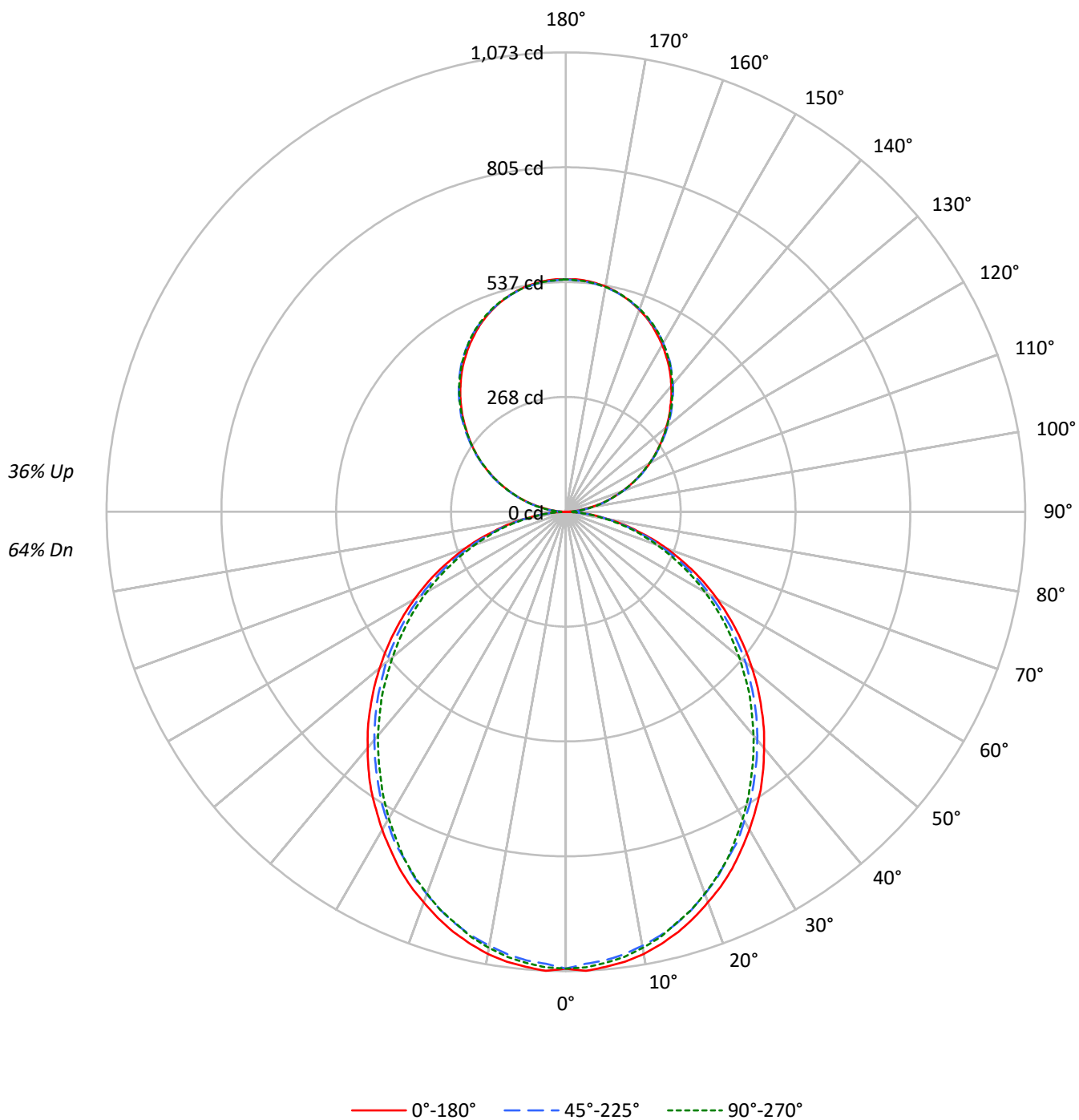
Lumens per Lamp: N/A
Luminaire Lumens: 4234.0 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	50	30	10
RCR																				
0	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	64		
1	101	97	93	89	95	91	87	84	80	77	75	70	68	66	61	60	58	54		
2	92	84	78	73	86	79	74	69	70	66	62	62	58	56	54	51	49	45		
3	84	74	67	61	78	70	63	58	62	57	52	55	50	47	48	45	42	38		
4	77	66	58	51	72	62	55	49	55	49	45	49	44	40	43	39	36	33		
5	71	59	50	44	66	55	48	42	49	43	39	44	39	35	38	35	32	29		
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	25		
7	60	48	40	34	56	45	38	32	40	34	30	36	31	27	32	28	25	22		
8	56	43	35	30	53	41	34	29	37	31	27	33	28	24	29	25	22	20		
9	52	40	32	27	49	38	31	26	34	28	24	30	26	22	27	23	20	18		
10	49	37	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16891	16891	16891
5°	16919	16102	15987
10°	16782	15368	15062
15°	16536	14627	14090
20°	16204	13824	13168
25°	15873	12984	12249
30°	15456	12195	11284
35°	15064	11362	10336
40°	14578	10541	9441
45°	14096	9725	8563
50°	13569	8896	7650
55°	13014	8010	6787
60°	12393	7049	5890
65°	11710	6075	4946
70°	10844	5005	3993
75°	9644	3859	3084
80°	8191	2622	1985
85°	5947	1220	844

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14096 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.4	2.4
10°-20°	282.6	6.7
20°-30°	415.3	9.8
30°-40°	482.3	11.4
40°-50°	481.7	11.4
50°-60°	420.0	9.9
60°-70°	310.5	7.3
70°-80°	175.7	4.1
80°-90°	47.9	1.1
90°-100°	33.6	0.8
100°-110°	106.7	2.5
110°-120°	182.6	4.3
120°-130°	240.2	5.7
130°-140°	269.6	6.4
140°-150°	264.4	6.2
150°-160°	221.8	5.2
160°-170°	147.1	3.5
170°-180°	51.4	1.2
0°-30°	798.3	18.9
0°-40°	1280.6	30.2
0°-60°	2182.4	51.5
0°-90°	2716.5	64.2
90°-120°	322.9	7.6
90°-150°	1097.1	25.9
90°-180°	1517.0	35.8
0°-180°	4234.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1067	1067	1067	1067	1067	
5°	1067	1063	1052	1060	1058	101
15°	1016	1010	996	1000	995	286
25°	919	911	894	896	894	423
35°	793	783	766	760	755	495
45°	645	638	623	612	608	498
55°	488	482	470	458	452	437
65°	329	323	313	304	299	326
75°	172	170	165	159	161	184
85°	42	41	40	37	36	47
90°	0	6	16	15	16	4
95°	24	28	29	29	28	27
105°	98	100	101	102	102	104
115°	183	186	185	185	183	181
125°	267	271	269	268	268	238
135°	345	350	351	350	349	267
145°	419	422	425	425	423	262
155°	479	480	481	484	482	220
165°	521	520	520	524	521	147
175°	542	540	540	543	540	51
180°	543	543	543	543	543	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1067.1	1067.1	1067.1	1067.1	1067.1
2.5°	1073.3	1068.2	1056.9	1067.1	1065.1
5°	1067.1	1063.0	1051.8	1060.0	1057.9
7.5°	1060.0	1053.8	1042.5	1050.7	1048.7
10°	1048.7	1041.5	1029.2	1037.4	1034.3
12.5°	1033.3	1027.1	1014.8	1019.9	1017.9
15°	1015.8	1009.7	996.3	1000.5	995.3
17.5°	994.3	988.1	974.8	979.9	974.8
20°	970.7	964.5	950.2	953.3	949.1
22.5°	947.1	937.9	924.5	924.5	922.5
25°	919.4	911.2	893.7	895.8	893.7
27.5°	888.6	881.4	868.1	865.0	859.9
30°	857.8	849.6	834.2	831.1	827.0
32.5°	825.0	818.8	802.4	796.3	792.2
35°	793.2	782.9	766.5	760.3	755.2
37.5°	757.3	748.0	731.6	724.4	719.3
40°	720.3	712.1	695.7	686.5	682.4
42.5°	684.4	676.2	659.8	649.5	643.4
45°	645.4	638.2	622.8	611.6	607.5
47.5°	607.5	600.3	583.9	572.6	566.4
50°	567.4	562.3	547.9	533.6	528.4
52.5°	528.4	521.3	507.9	496.6	489.5
55°	488.4	482.3	470.0	457.6	452.5
57.5°	448.4	443.3	429.9	417.6	413.5
60°	408.4	404.3	389.9	378.6	375.6
62.5°	369.4	362.2	352.0	341.7	337.6
65°	329.4	323.2	313.0	303.7	298.6
67.5°	288.3	283.2	274.0	266.8	262.7
70°	250.4	246.3	237.0	229.8	225.7
72.5°	211.4	207.3	202.1	195.0	191.9
75°	172.4	170.3	165.2	159.0	161.1
77.5°	137.5	133.4	131.3	128.3	125.2
80°	102.6	101.6	99.5	96.5	94.4
82.5°	69.8	69.8	68.7	64.6	64.6
85°	42.1	41.0	40.0	36.9	35.9
87.5°	18.5	16.4	14.4	11.3	10.3
90°	0.5	6.0	16.0	15.1	15.6
92.5°	10.1	13.7	14.2	14.7	14.7
95°	23.8	28.4	29.3	29.3	28.4
97.5°	39.8	44.0	45.8	45.8	45.8
100°	58.2	61.8	63.2	63.2	62.7
102.5°	77.4	80.2	82.0	82.4	82.0
105°	98.5	99.8	100.8	101.7	101.7
107.5°	119.5	121.4	121.4	121.8	119.5
110°	139.7	142.4	142.4	142.4	141.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	161.7	164.4	164.0	162.6	161.7
115°	183.2	186.0	185.0	184.6	183.2
117.5°	204.7	208.4	206.1	204.7	203.4
120°	226.3	229.9	226.3	226.3	224.9
122.5°	246.0	250.5	248.2	246.9	246.0
125°	266.6	270.7	269.3	267.9	267.5
127.5°	286.7	291.8	289.9	288.1	286.7
130°	305.5	311.5	310.5	309.6	307.8
132.5°	326.6	331.2	331.6	329.3	327.9
135°	344.9	349.9	350.8	350.4	349.0
137.5°	365.0	369.2	370.1	369.6	367.8
140°	382.9	387.0	389.3	389.3	387.5
142.5°	401.2	405.4	406.7	407.2	405.4
145°	418.6	421.8	424.6	425.0	423.2
147.5°	434.2	438.3	440.2	441.1	439.2
150°	450.2	453.0	454.8	456.2	454.8
152.5°	464.4	467.2	469.5	471.3	469.5
155°	478.6	480.0	481.4	483.7	482.3
157.5°	491.0	491.9	492.8	496.0	493.8
160°	502.0	502.9	503.4	506.1	504.3
162.5°	512.1	512.1	512.5	515.7	513.4
165°	520.8	520.3	520.3	523.5	521.2
167.5°	528.6	527.2	527.2	530.4	528.1
170°	534.5	533.1	532.7	535.9	533.1
172.5°	538.6	537.3	536.8	540.0	537.3
175°	541.8	540.5	539.6	542.8	540.0
177.5°	543.7	542.3	541.4	544.1	541.4
180°	542.8	542.8	542.8	542.8	542.8

(END OF REPORT)