

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: P1029665

Luminaire Tested: S122DIW-B675D435UB2750-4F0-XX-W2A-D1_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029665
REPORT IS A COMBINATION OF REPORTS P986572 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-D1_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

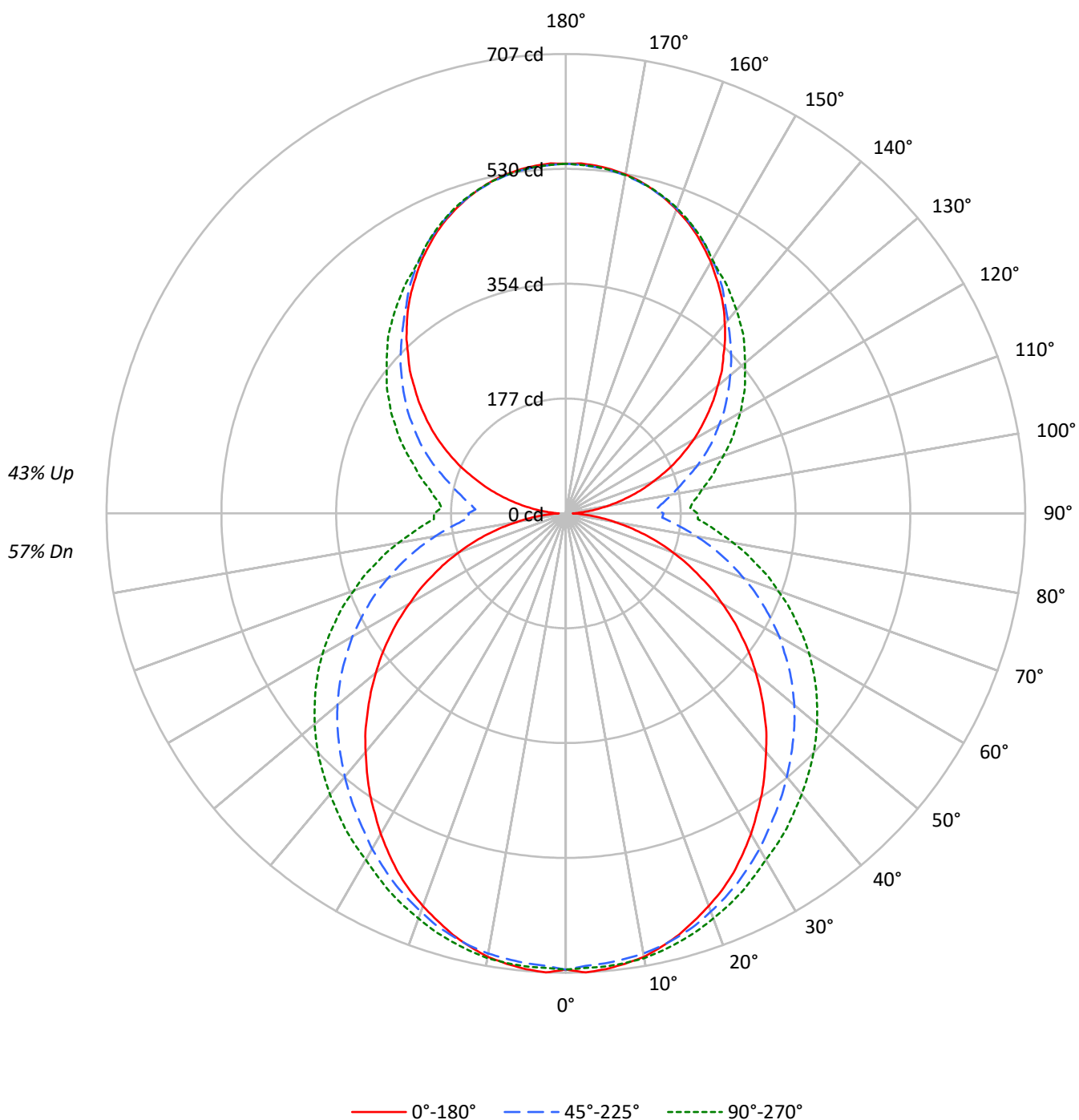
Lumens per Lamp: N/A
Luminaire Lumens: 4185.0 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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	109	109	109	109		101	101	101	101		87	87	87		74	74	74		62	62	62
1	98	93	88	84		90	86	82	78		74	71	68		63	61	58		53	51	49
2	88	80	73	67		82	74	68	63		64	59	55		54	51	47		45	43	40
3	80	70	62	55		74	65	58	52		56	50	46		47	43	39		40	36	34
4	73	61	53	46		67	57	49	44		49	43	38		42	37	33		35	31	28
5	67	54	46	39		62	51	43	37		44	38	33		37	32	29		31	28	24
6	62	49	40	34		57	45	38	32		39	33	28		34	29	25		28	24	21
7	57	44	35	30		53	41	33	28		36	29	25		31	26	22		26	22	19
8	53	40	32	26		49	37	30	25		32	26	22		28	23	19		24	20	17
9	49	36	28	23		45	34	27	22		30	24	20		26	21	17		22	18	15
10	46	33	26	21		43	31	24	20		27	22	18		24	19	16		20	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11114	11114	11114
5°	11164	10640	10580
10°	11090	10272	10121
15°	10933	9890	9652
20°	10735	9489	9204
25°	10540	9106	8801
30°	10267	8717	8399
35°	9991	8341	8105
40°	9701	8016	7813
45°	9422	7722	7558
50°	9125	7451	7307
55°	8812	7162	7051
60°	8430	6861	6782
65°	8031	6517	6471
70°	7579	6146	6139
75°	7004	5777	5822
80°	6092	5389	5498
85°	5170	5025	5216

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9422 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	1.6
10°-20°	190.9	4.6
20°-30°	289.2	6.9
30°-40°	352.2	8.4
40°-50°	379.0	9.1
50°-60°	368.0	8.8
60°-70°	321.4	7.7
70°-80°	247.4	5.9
80°-90°	167.2	4.0
90°-100°	147.6	3.5
100°-110°	189.3	4.5
110°-120°	236.2	5.6
120°-130°	268.9	6.4
130°-140°	280.2	6.7
140°-150°	264.3	6.3
150°-160°	219.9	5.3
160°-170°	145.8	3.5
170°-180°	51.0	1.2
0°-30°	546.7	13.1
0°-40°	898.9	21.5
0°-60°	1645.9	39.3
0°-90°	2381.9	56.9
90°-120°	573.1	13.7
90°-150°	1386.4	33.1
90°-180°	1803.0	43.1
0°-180°	4185.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	704	701	695	701	700	67
15°	672	674	674	683	682	189
25°	610	618	627	639	642	281
35°	526	543	563	585	592	329
45°	431	459	494	526	536	333
55°	331	367	420	457	470	296
65°	226	276	336	378	391	224
75°	125	182	247	291	304	132
85°	37	100	165	208	222	39
90°	11	75	150	190	203	9
95°	32	84	146	185	196	33
105°	103	134	187	224	235	109
115°	186	200	245	275	284	183
125°	266	270	302	328	336	238
135°	343	348	359	380	387	265
145°	415	418	421	428	431	260
155°	474	476	477	480	478	218
165°	516	516	516	519	517	146
175°	537	536	535	538	535	51
180°	538	538	538	538	538	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	702.1	702.1	702.1	702.1	702.1
2.5°	707.2	704.1	697.0	702.1	700.1
5°	704.1	701.1	695.0	701.1	700.1
7.5°	699.1	697.0	691.9	699.1	698.0
10°	693.0	690.9	687.9	696.0	695.0
12.5°	682.8	683.8	681.8	689.9	688.9
15°	671.6	673.6	673.6	682.8	681.8
17.5°	657.3	661.4	664.5	673.6	673.6
20°	643.1	648.2	652.2	663.4	663.4
22.5°	627.8	633.9	640.0	651.2	653.3
25°	610.5	617.7	626.8	639.0	642.1
27.5°	590.2	601.4	611.5	626.8	628.8
30°	569.8	583.1	596.3	612.6	615.6
32.5°	547.4	562.7	579.0	598.3	604.4
35°	526.1	543.4	562.7	585.1	592.2
37.5°	502.7	522.0	546.4	570.8	578.0
40°	479.3	501.7	529.1	555.6	564.7
42.5°	456.9	479.3	511.8	541.3	550.5
45°	431.4	458.9	494.5	526.1	536.2
47.5°	407.0	436.5	477.2	509.8	521.0
50°	381.6	413.1	458.9	493.5	504.7
52.5°	357.2	390.7	439.6	475.2	487.4
55°	330.7	367.3	420.2	456.9	470.1
57.5°	305.3	346.0	398.9	438.6	451.8
60°	277.8	321.5	379.5	418.2	432.5
62.5°	253.4	299.2	357.2	398.9	412.1
65°	225.9	275.8	335.8	377.5	390.7
67.5°	201.5	253.4	314.4	356.1	370.4
70°	175.0	227.9	291.0	334.8	347.0
72.5°	150.6	205.5	269.7	312.4	327.7
75°	125.2	182.1	247.3	291.0	304.2
77.5°	100.7	159.8	225.9	269.7	283.9
80°	76.3	138.4	204.5	247.3	261.5
82.5°	56.0	117.0	184.2	226.9	240.1
85°	36.6	99.7	164.8	207.6	221.8
87.5°	22.4	83.4	148.6	190.3	203.5
90°	10.7	75.1	150.2	190.0	202.6
92.5°	19.2	76.7	139.3	179.3	191.6
95°	31.7	84.2	146.1	184.8	196.1
97.5°	46.6	94.5	155.3	192.9	205.2
100°	64.8	106.1	164.5	202.1	212.8
102.5°	82.8	119.2	175.9	213.0	223.8
105°	102.7	133.6	187.4	223.9	235.1
107.5°	123.6	149.8	200.7	235.8	244.7
110°	142.6	165.6	215.5	248.0	257.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	164.4	183.4	229.8	260.9	271.2
115°	185.7	199.7	244.6	274.6	284.4
117.5°	206.1	217.8	258.2	287.5	296.2
120°	227.4	235.1	272.1	300.6	310.5
122.5°	247.0	252.5	287.8	314.0	322.3
125°	266.3	270.4	301.6	327.8	336.4
127.5°	286.3	290.3	315.9	339.5	347.4
130°	304.9	309.8	330.3	353.8	360.1
132.5°	325.8	329.3	345.1	366.2	372.9
135°	342.9	347.9	359.0	380.0	386.7
137.5°	362.9	367.0	373.0	391.9	397.2
140°	380.6	383.7	388.0	404.3	408.6
142.5°	398.8	401.9	403.2	415.9	419.2
145°	415.1	418.2	421.0	427.5	430.8
147.5°	430.5	434.6	436.4	438.3	439.6
150°	446.4	449.1	450.9	452.3	450.9
152.5°	460.5	463.2	465.5	467.3	465.5
155°	474.5	475.9	477.3	479.5	478.2
157.5°	486.8	487.7	488.6	491.8	489.5
160°	497.7	498.6	499.1	501.8	500.0
162.5°	507.7	507.7	508.1	511.3	509.1
165°	516.3	515.9	515.9	519.0	516.8
167.5°	524.0	522.7	522.7	525.9	523.6
170°	529.9	528.6	528.1	531.3	528.6
172.5°	534.0	532.7	532.2	535.4	532.7
175°	537.2	535.8	534.9	538.1	535.4
177.5°	539.0	537.7	536.8	539.5	536.8
180°	538.1	538.1	538.1	538.1	538.1

(END OF REPORT)