

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: P1029670

Luminaire Tested: S122DIW-B675D435UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029670
REPORT IS A COMBINATION OF REPORTS P986582 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-D_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

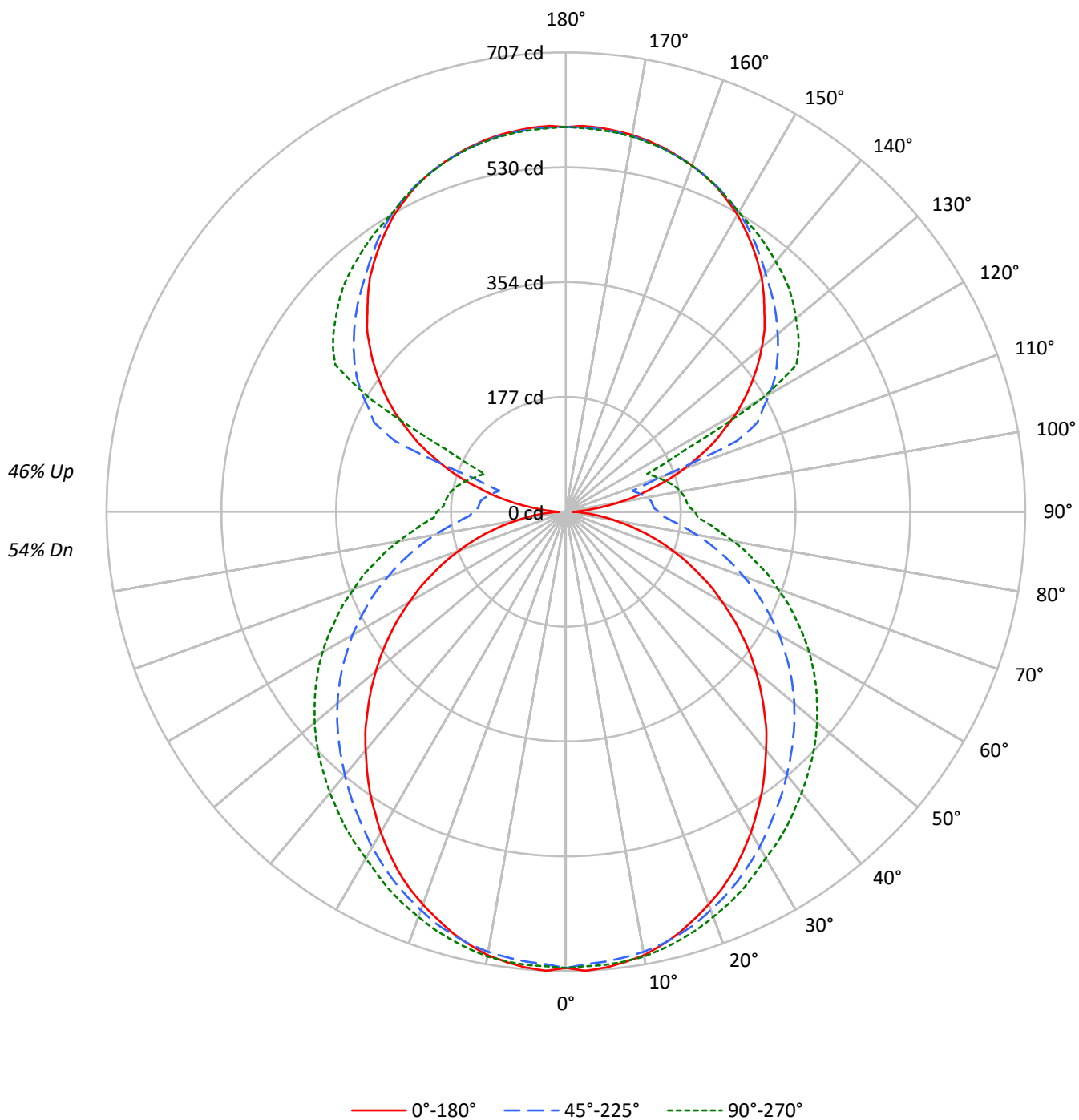
Lumens per Lamp: N/A
Luminaire Lumens: 4416.0 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

TEST NUMBER: P1029670

CATALOG NUMBER: S122DIW-B675D435UB2750-4F0-XX-W2A-D_2700K

Luminous Intensity Polar Plot



TEST NUMBER: P1029670

CATALOG NUMBER: S122DIW-B675D435UB2750-4F0-XX-W2A-D_2700K

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
RCR																	
0	108	108	108	108	100	100	100	100	86	86	86		72	72	72		60
1	97	92	87	83	90	85	81	78	73	70	67		61	59	57		50
2	88	79	73	67	81	74	68	62	63	58	54		53	49	46		43
3	80	69	61	55	73	64	57	51	55	49	45		46	42	38		38
4	73	61	52	46	67	57	49	43	48	42	38		41	36	32		33
5	67	54	45	39	61	50	43	37	43	37	32		36	32	28		30
6	61	48	40	34	56	45	37	32	39	33	28		33	28	24		27
7	56	44	35	29	52	41	33	28	35	29	24		30	25	21		25
8	52	40	31	26	48	37	30	24	32	26	22		27	22	19		23
9	49	36	28	23	45	34	27	22	29	23	19		25	20	17		21
10	46	33	26	21	42	31	24	19	27	21	17		23	18	15		19

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

TEST NUMBER: P1029670

CATALOG NUMBER: S122DIW-B675D435UB2750-4F0-XX-W2A-D_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	1.5
10°-20°	190.9	4.3
20°-30°	289.2	6.5
30°-40°	352.2	8.0
40°-50°	379.0	8.6
50°-60°	368.0	8.3
60°-70°	321.4	7.3
70°-80°	247.4	5.6
80°-90°	166.7	3.8
90°-100°	133.8	3.0
100°-110°	156.3	3.5
110°-120°	248.2	5.6
120°-130°	350.9	7.9
130°-140°	353.0	8.0
140°-150°	318.3	7.2
150°-160°	254.1	5.8
160°-170°	163.8	3.7
170°-180°	56.4	1.3
0°-30°	546.7	12.4
0°-40°	898.9	20.4
0°-60°	1645.9	37.3
0°-90°	2381.4	53.9
90°-120°	538.3	12.2
90°-150°	1560.4	35.3
90°-180°	2035.0	46.1
0°-180°	4416.0	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	74	143	186	199	9
95°	36	70	134	175	186	39
105°	135	178	114	154	167	145
115°	250	269	326	158	138	246
125°	350	356	397	427	438	313
135°	432	439	453	479	486	334
145°	500	500	507	516	519	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	

TEST NUMBER: P1029670

CATALOG NUMBER: S122DIW-B675D435UB2750-4F0-XX-W2A-D_2700K

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°	10.6	74.3	142.9	185.7	198.8
92.5°	19.9	72.1	135.5	175.9	188.7
95°	36.0	69.7	133.7	174.6	186.3
97.5°	57.2	65.9	131.8	170.6	183.4
100°	82.9	61.9	126.2	167.3	179.3
102.5°	110.2	143.0	119.9	161.3	173.8
105°	135.4	177.7	113.6	153.9	166.9
107.5°	165.8	200.9	107.4	146.7	159.6
110°	193.9	223.2	149.3	138.9	151.8

TEST NUMBER: P1029670

CATALOG NUMBER: S122DIW-B675D435UB2750-4F0-XX-W2A-D_2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	221.3	245.3	284.9	132.7	145.2
115°	250.5	269.0	325.5	157.6	137.9
117.5°	274.7	291.4	341.4	310.7	208.6
120°	303.0	313.5	361.9	395.5	348.9
122.5°	327.0	334.9	381.0	411.1	420.7
125°	350.3	355.9	396.7	427.2	437.5
127.5°	372.6	377.6	411.6	441.2	450.9
130°	393.6	399.5	425.6	454.7	462.4
132.5°	415.0	419.6	439.6	466.9	474.6
135°	432.0	438.9	453.0	478.6	485.9
137.5°	450.9	456.0	465.4	489.0	494.9
140°	469.3	471.7	478.5	498.6	502.6
142.5°	484.7	486.7	492.3	507.9	510.9
145°	500.0	499.6	506.9	516.0	518.9
147.5°	514.2	512.9	520.2	523.3	524.7
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)