

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: P1029695

Luminaire Tested: S122DIW-B675D710UB2750-4F0-XX-W2A-D1_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029695
REPORT IS A COMBINATION OF REPORTS P986662 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B675D710UB2750-4F0-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

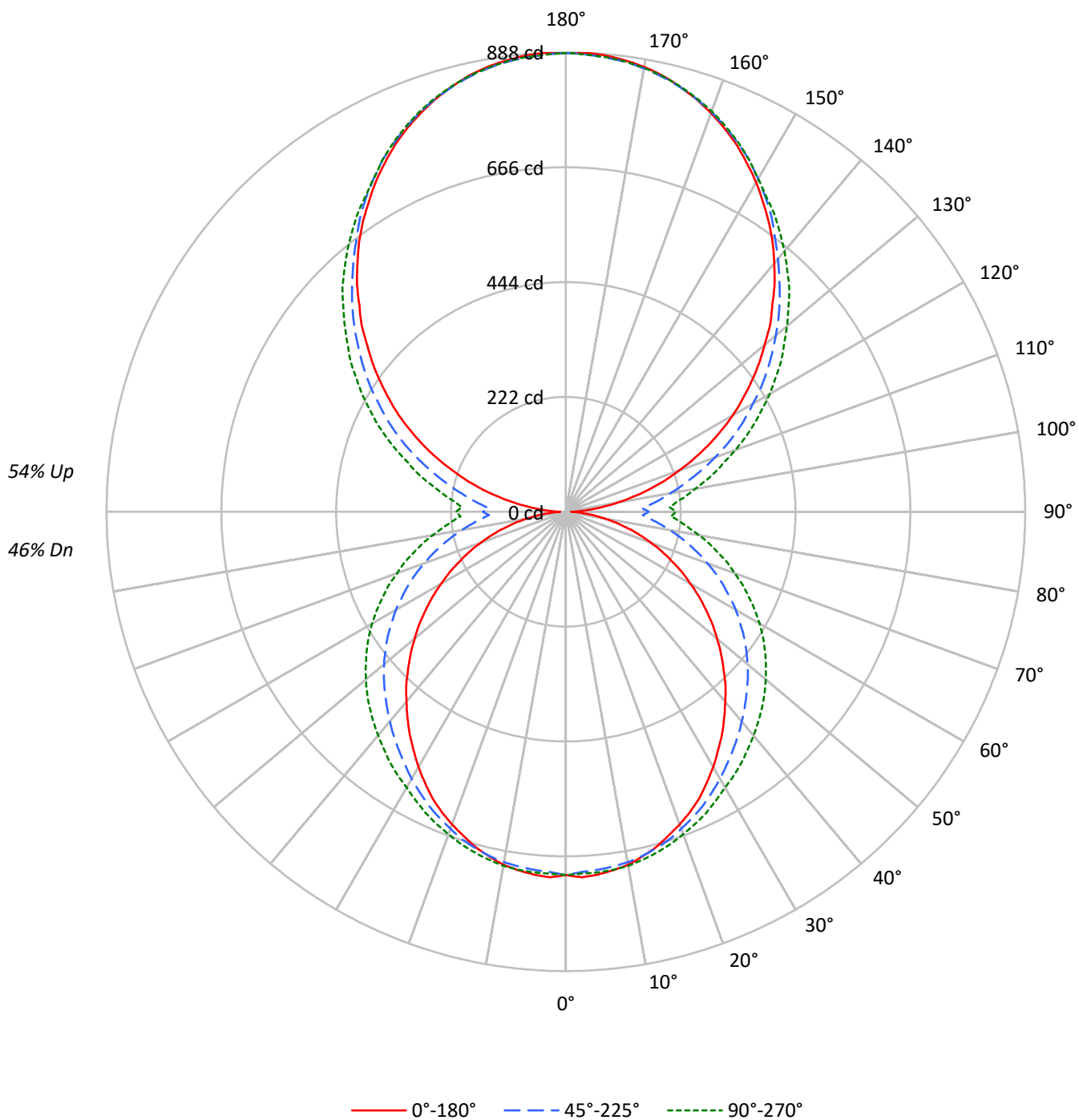
Lumens per Lamp: N/A
Luminaire Lumens: 5161.0 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 59.1
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	106	106	106	106	98	98	98	98	81	81	81	66	66	66	53	53	53			46
1	96	91	86	82	87	83	79	76	69	66	64	56	54	52	44	43	42			36
2	86	78	72	66	79	72	66	61	60	55	52	49	45	43	38	36	34			29
3	78	68	61	54	71	63	56	50	52	47	43	42	39	35	33	31	28			24
4	72	60	52	46	65	55	48	42	46	40	36	38	33	30	30	27	24			20
5	66	53	45	39	60	49	42	36	41	35	31	33	29	26	26	23	21			17
6	60	48	39	33	55	44	37	31	37	31	27	30	26	22	24	21	18			15
7	56	43	35	29	51	40	32	27	33	28	23	27	23	20	22	18	16			13
8	52	39	31	26	47	36	29	24	30	25	21	25	21	17	20	17	14			12
9	48	35	28	23	44	33	26	21	28	22	18	23	19	15	18	15	13			10
10	45	32	25	20	41	30	23	19	25	20	16	21	17	14	17	14	11			9

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	1.3
10°-20°	190.9	3.7
20°-30°	289.2	5.6
30°-40°	352.2	6.8
40°-50°	379.0	7.3
50°-60°	368.0	7.1
60°-70°	321.4	6.2
70°-80°	247.4	4.8
80°-90°	168.2	3.3
90°-100°	169.1	3.3
100°-110°	257.9	5.0
110°-120°	353.6	6.9
120°-130°	423.2	8.2
130°-140°	453.4	8.8
140°-150°	434.2	8.4
150°-160°	362.4	7.0
160°-170°	240.3	4.7
170°-180°	84.0	1.6
0°-30°	546.7	10.6
0°-40°	898.9	17.4
0°-60°	1645.9	31.9
0°-90°	2382.9	46.2
90°-120°	780.6	15.1
90°-150°	2091.4	40.5
90°-180°	2778.0	53.8
0°-180°	5161.0	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	79	160	200	213	10
95°	47	102	165	204	214	50
105°	166	198	252	289	300	176
115°	304	319	364	393	402	300
125°	438	444	475	500	508	391
135°	564	573	584	605	611	437
145°	684	689	694	701	703	428
155°	782	784	787	790	788	360
165°	851	850	850	855	852	240
175°	885	883	882	887	882	84
180°	887	887	887	887	887	

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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°	10.9	78.9	160.5	199.7	212.6
92.5°	25.7	85.6	148.4	188.7	201.0
95°	47.0	102.4	164.9	203.6	214.3
97.5°	72.2	122.7	184.7	222.3	234.6
100°	102.1	145.8	205.1	242.7	253.1
102.5°	132.6	170.7	228.6	266.0	276.5
105°	166.0	197.8	252.1	289.2	300.4
107.5°	200.4	227.8	278.7	314.1	321.5
110°	232.4	257.2	307.1	339.6	348.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	268.3	289.1	335.1	365.4	375.1
115°	303.5	319.2	363.5	393.2	402.2
117.5°	337.6	351.7	390.7	419.0	426.9
120°	372.8	382.8	417.5	446.0	455.0
122.5°	405.0	413.5	447.3	472.6	480.3
125°	437.6	444.3	474.7	499.9	508.3
127.5°	470.5	477.7	502.2	524.6	531.6
130°	501.2	509.9	529.8	552.7	557.8
132.5°	535.6	542.1	558.1	577.8	583.7
135°	564.5	572.8	584.5	605.1	611.0
137.5°	597.5	604.2	610.8	629.4	633.6
140°	626.7	632.4	638.1	654.4	657.5
142.5°	656.6	662.3	664.6	677.5	679.6
145°	684.0	689.3	693.8	700.6	702.7
147.5°	709.5	716.2	719.2	721.7	721.8
150°	735.7	740.2	743.2	745.4	743.2
152.5°	758.9	763.4	767.1	770.1	767.1
155°	782.1	784.3	786.6	790.3	788.1
157.5°	802.3	803.8	805.3	810.5	806.8
160°	820.2	821.7	822.5	827.0	824.0
162.5°	836.7	836.7	837.5	842.7	839.0
165°	850.9	850.2	850.2	855.4	851.7
167.5°	863.7	861.4	861.4	866.6	862.9
170°	873.4	871.1	870.4	875.6	871.1
172.5°	880.1	877.9	877.1	882.4	877.9
175°	885.4	883.1	881.6	886.9	882.4
177.5°	888.4	886.1	884.6	889.1	884.6
180°	886.9	886.9	886.9	886.9	886.9

(END OF REPORT)