

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: P1058039

Luminaire Tested: S122RDR-S675D830-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-58)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S675D830-X4F0-XX-UDD-WVL-S
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

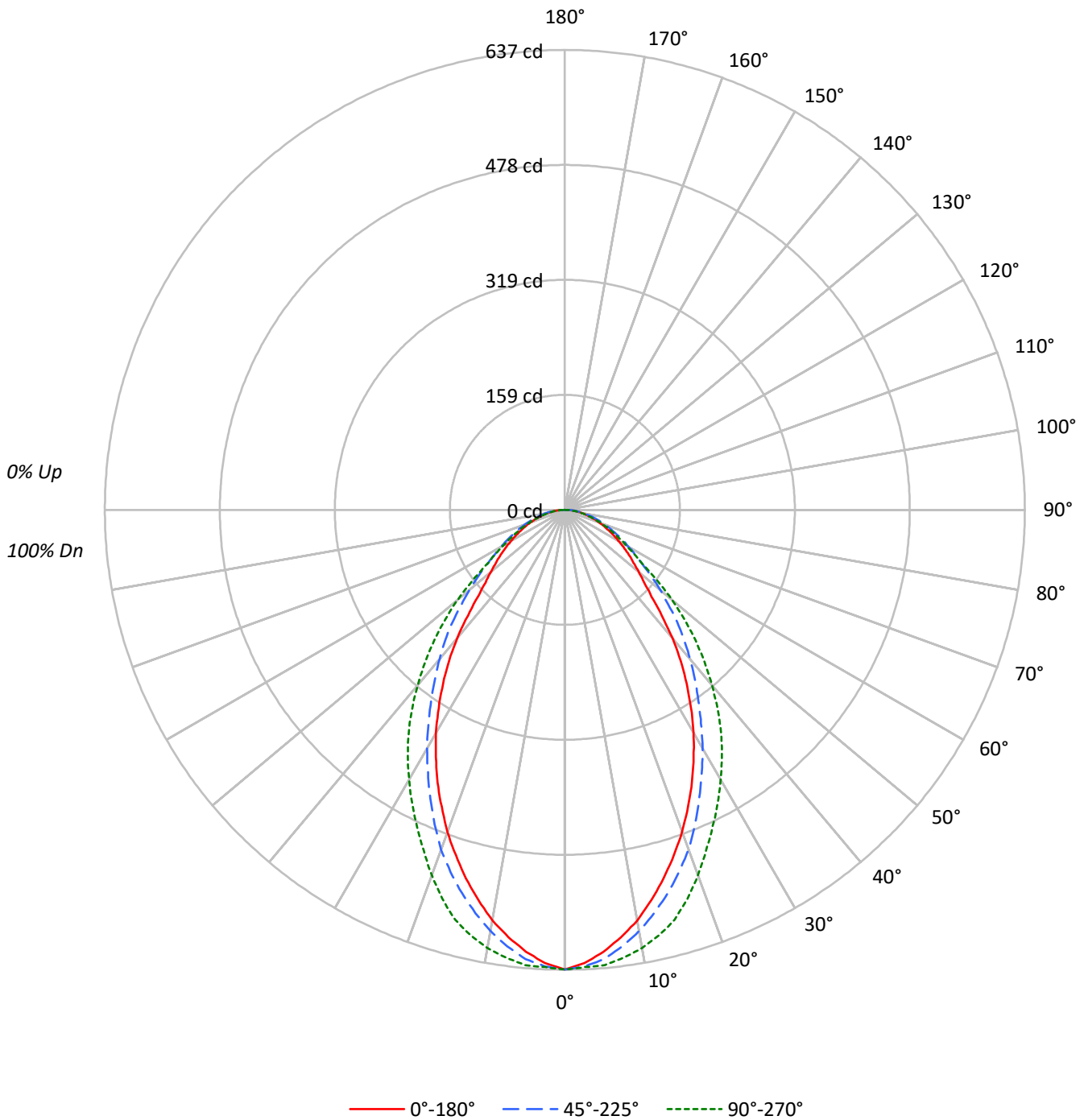
Lumens per Lamp: N/A
Luminaire Lumens: 1036.7 lumens
Efficiency: N/A
Efficacy: 40.2 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 1.05 / 1.05
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
Input Voltage (V): 120
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87				87
2	102	95	89	84	100	93	88	83	90	85	81	87	83	79	84	80	78	76				76
3	94	85	78	73	92	84	77	72	81	75	71	78	73	69	76	72	68	66				66
4	88	77	69	63	85	76	69	63	73	67	62	71	66	61	69	64	61	59				59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52				52
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47				47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43				43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39				39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36				36
10	59	47	40	35	58	46	39	35	45	39	35	45	39	34	44	38	34	33				33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11747	11747	11747
5°	11382	11569	11723
10°	10821	11098	11548
15°	10096	10503	11227
20°	9325	9834	10578
25°	8484	8973	9858
30°	7600	8131	9194
35°	6618	7265	8492
40°	5586	6499	7633
45°	4436	5738	6678
50°	3821	4935	5543
55°	3478	4221	4250
60°	3170	3750	3613
65°	2904	3388	3187
70°	2692	3140	2843
75°	2502	2966	2502
80°	2359	2848	2263
85°	2350	2943	1948

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6678 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.8	5.7
10°-20°	155.4	15.0
20°-30°	204.4	19.7
30°-40°	205.6	19.8
40°-50°	166.6	16.1
50°-60°	114.8	11.1
60°-70°	75.1	7.2
70°-80°	41.9	4.0
80°-90°	14.2	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	418.6	40.4
0°-40°	624.2	60.2
0°-60°	905.5	87.4
0°-90°	1036.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1036.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	637	637	637	637	637	
5°	614	626	625	627	633	57
15°	528	542	550	570	588	148
25°	417	428	441	460	484	191
35°	294	308	322	351	377	183
45°	170	189	220	239	256	134
55°	108	120	131	134	132	97
65°	66	80	78	74	73	66
75°	35	43	42	37	35	38
85°	11	15	14	12	9	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	636.6	636.6	636.6	636.6	636.6
2.5°	628.3	639.4	632.9	632.9	633.9
5°	614.5	626.5	624.6	627.4	632.9
7.5°	596.9	609.8	609.8	618.2	625.5
10°	577.5	590.4	592.3	605.2	616.3
12.5°	553.5	566.4	572.0	588.6	603.4
15°	528.5	541.5	549.8	570.1	587.7
17.5°	501.7	514.7	525.8	547.0	564.6
20°	474.9	486.9	500.8	519.3	538.7
22.5°	445.4	458.3	471.2	488.8	511.0
25°	416.7	427.8	440.7	460.1	484.2
27.5°	386.2	398.2	410.3	433.4	458.3
30°	356.7	368.7	381.6	405.6	431.5
32.5°	325.2	338.2	351.1	377.9	404.7
35°	293.8	307.7	322.5	351.1	377.0
37.5°	263.3	278.1	295.7	325.2	347.4
40°	231.9	247.6	269.8	295.7	316.9
42.5°	198.7	218.1	244.9	267.0	286.4
45°	170.0	189.4	219.9	239.3	255.9
47.5°	148.8	164.5	194.0	210.7	224.5
50°	133.1	145.1	171.9	183.9	193.1
52.5°	120.1	132.1	150.6	158.9	161.7
55°	108.1	120.1	131.2	134.0	132.1
57.5°	96.1	109.0	115.5	112.7	112.7
60°	85.9	99.8	101.6	97.9	97.9
62.5°	75.8	89.6	89.6	85.0	85.0
65°	66.5	79.5	77.6	73.9	73.0
67.5°	58.2	70.2	67.5	63.8	62.8
70°	49.9	61.0	58.2	53.6	52.7
72.5°	42.5	52.7	49.0	45.3	43.4
75°	35.1	43.4	41.6	37.0	35.1
77.5°	28.6	35.1	33.3	29.6	27.7
80°	22.2	27.7	26.8	23.1	21.3
82.5°	16.6	21.3	20.3	17.6	14.8
85°	11.1	14.8	13.9	12.0	9.2
87.5°	5.5	10.2	9.2	8.3	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)