

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: P1058102

Luminaire Tested: S122RDR-S675D940-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058102
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-S675D940-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

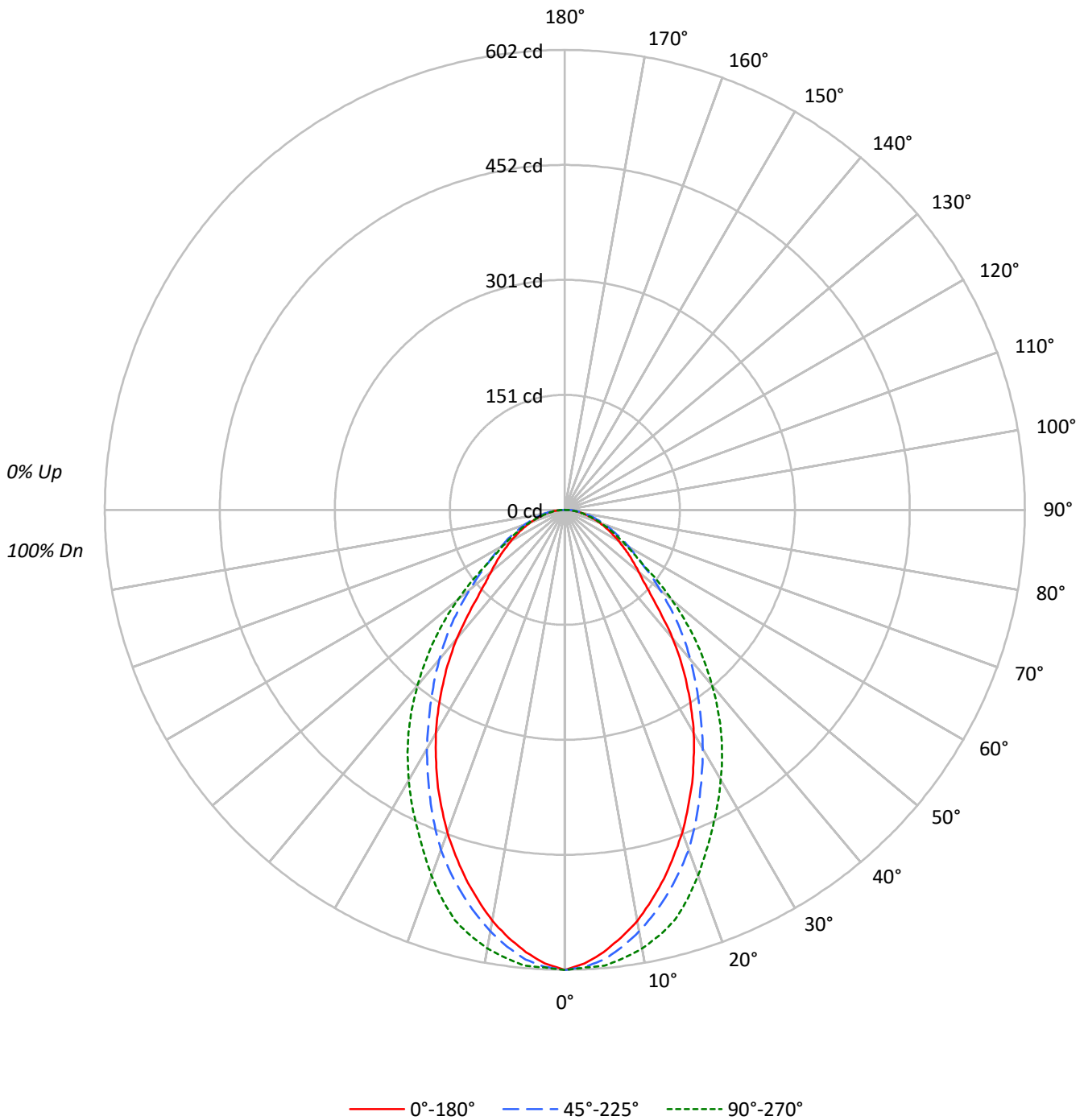
Lumens per Lamp: N/A
Luminaire Lumens: 980.8 lumens
Efficiency: N/A
Efficacy: 38.0 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 1.05 / 1.05
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11114	11114	11114
5°	10767	10945	11092
10°	10238	10498	10926
15°	9552	9936	10621
20°	8823	9304	10007
25°	8026	8490	9327
30°	7189	7692	8698
35°	6262	6873	8035
40°	5285	6150	7222
45°	4196	5431	6318
50°	3614	4668	5245
55°	3291	3992	4021
60°	3000	3550	3421
65°	2746	3205	3017
70°	2547	2973	2687
75°	2367	2802	2367
80°	2232	2699	2136
85°	2223	2774	1842

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6318 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.6	5.7
10°-20°	147.0	15.0
20°-30°	193.4	19.7
30°-40°	194.5	19.8
40°-50°	157.6	16.1
50°-60°	108.6	11.1
60°-70°	71.1	7.2
70°-80°	39.6	4.0
80°-90°	13.4	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°	396.0	40.4
0°-40°	590.5	60.2
0°-60°	856.7	87.4
0°-90°	980.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	980.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	602	602	602	602	602	
5°	581	593	591	594	599	54
15°	500	512	520	539	556	140
25°	394	405	417	435	458	181
35°	278	291	305	332	357	173
45°	161	179	208	226	242	127
55°	102	114	124	127	125	92
65°	63	75	73	70	69	63
75°	33	41	39	35	33	35
85°	10	14	13	11	9	11
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	602.3	602.3	602.3	602.3	602.3
2.5°	594.4	604.9	598.8	598.8	599.7
5°	581.3	592.7	590.9	593.6	598.8
7.5°	564.7	576.9	576.9	584.8	591.8
10°	546.4	558.6	560.3	572.6	583.1
12.5°	523.6	535.9	541.1	556.8	570.8
15°	500.0	512.3	520.1	539.4	556.0
17.5°	474.7	486.9	497.4	517.5	534.1
20°	449.3	460.7	473.8	491.3	509.6
22.5°	421.3	433.6	445.8	462.4	483.4
25°	394.2	404.7	417.0	435.3	458.1
27.5°	365.4	376.8	388.1	410.0	433.6
30°	337.4	348.8	361.0	383.8	408.2
32.5°	307.7	319.9	332.2	357.5	382.9
35°	278.0	291.1	305.1	332.2	356.7
37.5°	249.1	263.1	279.7	307.7	328.7
40°	219.4	234.3	255.3	279.7	299.8
42.5°	187.9	206.3	231.7	252.6	271.0
45°	160.8	179.2	208.1	226.4	242.1
47.5°	140.7	155.6	183.6	199.3	212.4
50°	125.9	137.2	162.6	174.0	182.7
52.5°	113.6	125.0	142.5	150.4	153.0
55°	102.3	113.6	124.1	126.8	125.0
57.5°	90.9	103.2	109.3	106.6	106.6
60°	81.3	94.4	96.2	92.7	92.7
62.5°	71.7	84.8	84.8	80.4	80.4
65°	62.9	75.2	73.4	69.9	69.1
67.5°	55.1	66.4	63.8	60.3	59.4
70°	47.2	57.7	55.1	50.7	49.8
72.5°	40.2	49.8	46.3	42.8	41.1
75°	33.2	41.1	39.3	35.0	33.2
77.5°	27.1	33.2	31.5	28.0	26.2
80°	21.0	26.2	25.4	21.9	20.1
82.5°	15.7	20.1	19.2	16.6	14.0
85°	10.5	14.0	13.1	11.4	8.7
87.5°	5.2	9.6	8.7	7.9	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)