

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1059332

Luminaire Tested: S123RDRP-S775D830-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1059332
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-68)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDRP-S775D830-X4F0-XX-UDD-SVL-S
Description: DEFINE 3 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

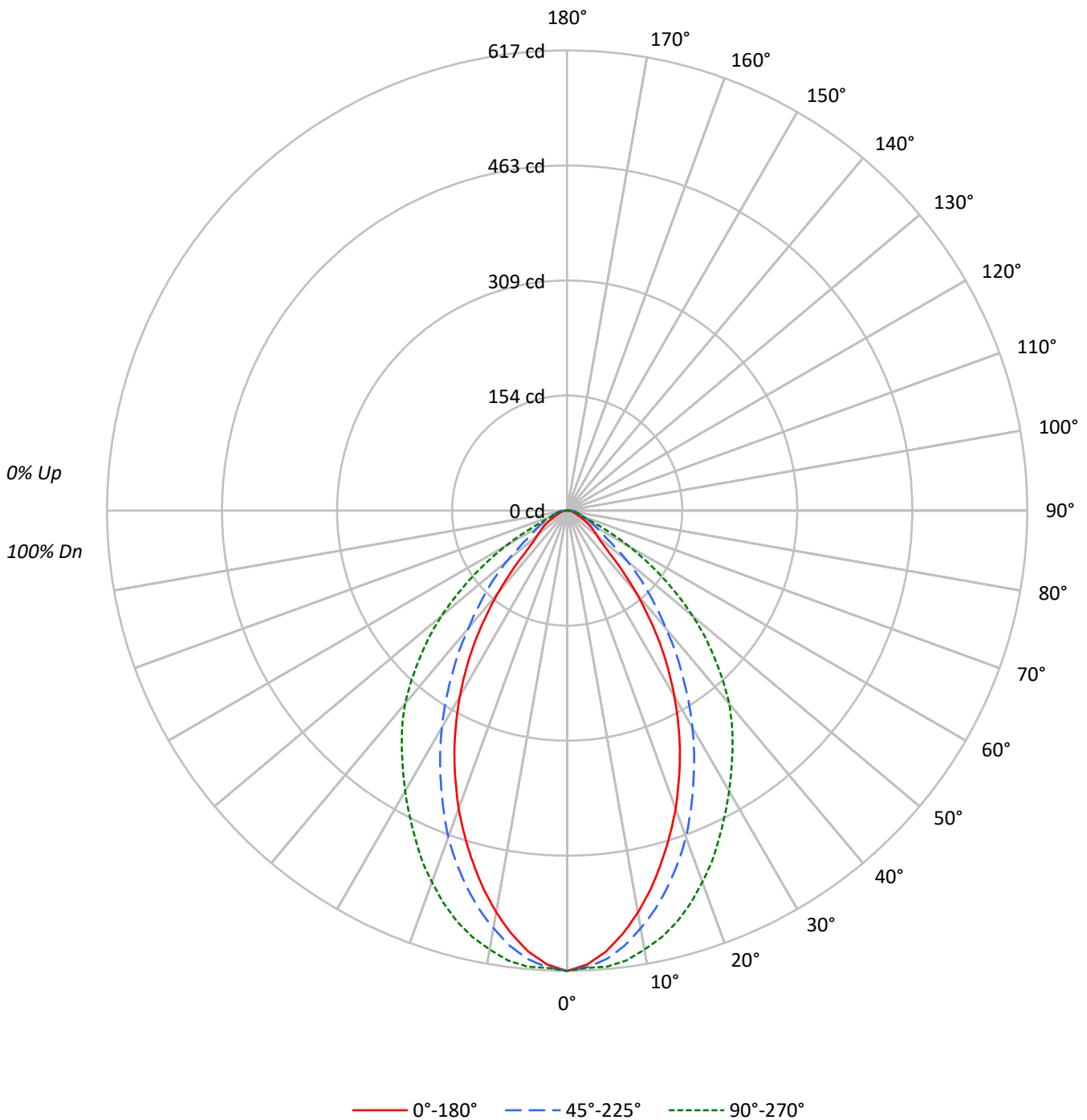
Lumens per Lamp: N/A
Luminaire Lumens: 826.7 lumens
Efficiency: N/A
Efficacy: 32.0 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.07 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
Input Voltage (V): 120
Input Current (A_{in}): 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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79				79
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71				71
4	91	81	74	69	88	80	73	68	77	72	67	75	70	66	73	69	66	64				64
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59	58				58
6	79	68	61	56	78	67	60	55	66	60	55	64	59	54	63	58	54	52				52
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	49	48				48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	45	44				44
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40				40
10	62	51	44	39	61	50	44	39	50	43	39	49	43	39	48	43	39	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7249	7249	7249
5°	7000	7117	7234
10°	6522	6780	7124
15°	5937	6343	6934
20°	5315	5822	6622
25°	4636	5195	6258
30°	3898	4557	5890
35°	3101	3862	5542
40°	2210	3150	5180
45°	1317	2529	4640
50°	972	1925	4017
55°	813	1310	3192
60°	655	1080	2243
65°	525	925	1203
70°	433	803	742
75°	408	776	694
80°	426	852	669
85°	606	1213	849

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4640 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.7	6.9
10°-20°	147.3	17.8
20°-30°	187.9	22.7
30°-40°	176.8	21.4
40°-50°	127.0	15.4
50°-60°	72.8	8.8
60°-70°	33.3	4.0
70°-80°	16.7	2.0
80°-90°	8.2	1.0
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°	391.9	47.4
0°-40°	568.7	68.8
0°-60°	768.5	93.0
0°-90°	826.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	826.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	617	617	617	617	617	
5°	594	606	604	608	614	55
15°	488	506	522	550	570	136
25°	358	374	401	444	483	163
35°	216	232	269	331	387	134
45°	79	96	152	224	279	66
55°	40	41	64	118	156	36
65°	19	26	33	37	43	19
75°	9	18	17	15	15	10
85°	4	9	9	8	6	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	617.3	617.3	617.3	617.3	617.3
2.5°	609.2	618.2	612.8	612.8	613.7
5°	593.9	605.6	603.8	608.3	613.7
7.5°	572.2	584.9	588.5	599.3	608.3
10°	547.0	561.4	568.6	585.8	597.5
12.5°	519.1	535.3	547.0	568.6	585.8
15°	488.4	505.5	521.8	549.7	570.4
17.5°	456.9	474.0	494.7	527.2	551.5
20°	425.3	442.5	465.9	500.1	529.9
22.5°	391.1	408.2	433.5	472.2	508.3
25°	357.8	374.0	401.0	444.3	483.0
27.5°	322.6	338.8	368.6	415.4	458.7
30°	287.5	303.7	336.1	386.6	434.4
32.5°	252.3	267.6	302.8	358.7	410.0
35°	216.3	231.6	269.4	330.7	386.6
37.5°	179.3	194.6	238.8	305.5	363.2
40°	144.2	161.3	205.5	280.3	337.9
42.5°	109.9	128.0	178.4	253.2	309.1
45°	79.3	96.4	152.3	224.4	279.4
47.5°	60.4	69.4	128.9	195.6	250.5
50°	53.2	54.1	105.4	169.4	219.9
52.5°	46.0	46.9	82.0	144.2	187.4
55°	39.7	40.6	64.0	118.1	155.9
57.5°	33.3	35.1	52.3	93.7	125.3
60°	27.9	31.5	46.0	71.2	95.5
62.5°	22.5	28.8	39.7	52.3	68.5
65°	18.9	26.1	33.3	36.9	43.3
67.5°	15.3	24.3	27.9	26.1	26.1
70°	12.6	21.6	23.4	21.6	21.6
72.5°	10.8	20.7	19.8	18.0	18.0
75°	9.0	18.0	17.1	15.3	15.3
77.5°	8.1	15.3	14.4	13.5	12.6
80°	6.3	12.6	12.6	11.7	9.9
82.5°	5.4	10.8	10.8	9.9	8.1
85°	4.5	9.0	9.0	8.1	6.3
87.5°	3.6	8.1	8.1	7.2	4.5
90°	0.0	0.0	0.0	0.0	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	6.86	8.18	7.22	8.49	8.80	14.09	15.41	14.45	15.72	16.03
	3H	8.26	9.43	8.64	9.76	10.12	14.32	15.49	14.70	15.82	16.19
	4H	8.82	9.91	9.22	10.26	10.64	14.43	15.52	14.83	15.87	16.25
	6H	9.28	10.28	9.69	10.65	11.05	14.54	15.54	14.95	15.91	16.30
	8H	9.47	10.41	9.90	10.81	11.21	14.59	15.53	15.02	15.93	16.33
	12H	9.66	10.56	10.09	10.95	11.38	14.64	15.54	15.07	15.93	16.36
4H	2H	7.93	9.02	8.33	9.37	9.76	14.05	15.14	14.45	15.49	15.87
	3H	9.62	10.51	10.03	10.92	11.32	14.42	15.31	14.83	15.71	16.12
	4H	10.45	11.25	10.89	11.67	12.12	14.60	15.40	15.04	15.82	16.26
	6H	11.11	11.80	11.58	12.25	12.72	14.82	15.51	15.29	15.96	16.43
	8H	11.37	12.01	11.84	12.46	12.93	14.92	15.57	15.39	16.02	16.49
	12H	11.62	12.20	12.11	12.68	13.15	15.04	15.61	15.53	16.09	16.57
8H	4H	10.89	11.54	11.36	11.98	12.45	14.64	15.29	15.11	15.74	16.21
	6H	11.84	12.37	12.34	12.87	13.35	14.98	15.51	15.48	16.00	16.48
	8H	12.31	12.78	12.83	13.30	13.79	15.17	15.64	15.69	16.16	16.65
	12H	12.79	13.21	13.30	13.70	14.27	15.40	15.82	15.91	16.32	16.89
12H	4H	10.95	11.52	11.44	12.00	12.48	14.64	15.21	15.12	15.69	16.17
	6H	11.99	12.47	12.51	12.98	13.47	15.00	15.48	15.52	16.00	16.49
	8H	12.58	13.00	13.10	13.50	14.07	15.26	15.69	15.78	16.18	16.75