

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: P1059387

Luminaire Tested: S123RDRP-S775D935-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1059387
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-65)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDRP-S775D935-X4F0-XX-UDD-SVL-W
Description: DEFINE 3 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

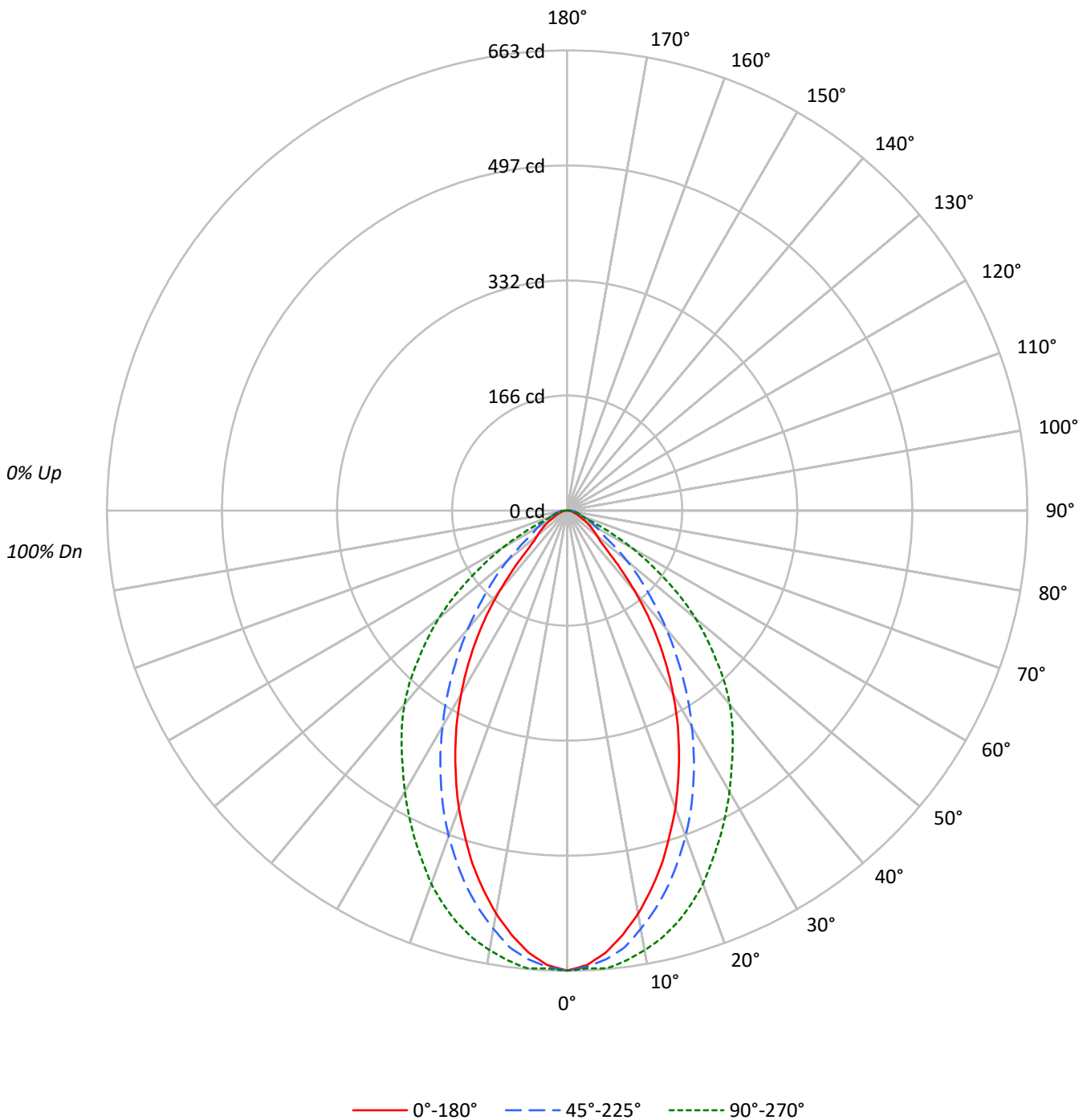
Lumens per Lamp: N/A
Luminaire Lumens: 889.8 lumens
Efficiency: N/A
Efficacy: 34.5 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.08 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

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	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	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89																												
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79																												
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71																												
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	66	64																												
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58																												
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																												
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	49	48																												
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44																												
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40																												
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7783	7783	7783
5°	7532	7648	7803
10°	7029	7295	7668
15°	6407	6816	7468
20°	5701	6236	7151
25°	4939	5579	6742
30°	4142	4868	6342
35°	3281	4143	5960
40°	2322	3408	5592
45°	1367	2694	5032
50°	1023	2046	4408
55°	860	1382	3540
60°	695	1179	2513
65°	550	1006	1328
70°	481	875	821
75°	449	821	785
80°	446	893	778
85°	552	1334	997

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5032 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.0	6.9
10°-20°	158.5	17.8
20°-30°	201.9	22.7
30°-40°	189.9	21.3
40°-50°	136.8	15.4
50°-60°	79.0	8.9
60°-70°	36.1	4.1
70°-80°	18.0	2.0
80°-90°	8.5	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°	421.4	47.4
0°-40°	611.3	68.7
0°-60°	827.1	93.0
0°-90°	889.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	889.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	663	663	663	663	663	
5°	639	650	649	655	662	59
15°	527	546	561	592	614	147
25°	381	401	431	478	520	174
35°	229	249	289	356	416	142
45°	82	103	162	244	303	70
55°	42	44	68	128	173	38
65°	20	28	36	40	48	20
75°	10	19	18	17	17	11
85°	4	9	10	9	7	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	662.8	662.8	662.8	662.8	662.8
2.5°	655.4	663.7	657.9	658.7	660.4
5°	639.0	649.7	648.8	655.4	662.0
7.5°	615.9	628.2	634.8	644.7	653.8
10°	589.5	603.5	611.8	629.9	643.1
12.5°	559.1	577.2	587.9	611.8	630.7
15°	527.0	545.9	560.7	592.0	614.3
17.5°	490.7	511.3	530.3	567.3	594.5
20°	456.2	475.9	499.0	539.3	572.3
22.5°	418.3	439.7	466.0	508.9	545.9
25°	381.2	401.0	430.6	478.4	520.4
27.5°	344.2	363.9	395.2	447.9	494.0
30°	305.5	326.1	359.0	417.5	467.7
32.5°	267.6	287.4	324.4	387.8	440.5
35°	228.9	248.7	289.0	355.7	415.8
37.5°	191.0	211.6	254.4	329.4	391.1
40°	151.5	173.7	222.3	302.2	364.8
42.5°	114.5	138.3	190.2	274.2	335.9
45°	82.3	102.9	162.2	243.7	303.0
47.5°	64.2	74.9	136.7	212.4	272.5
50°	56.0	57.6	112.0	183.6	241.3
52.5°	48.6	50.2	88.1	156.4	208.3
55°	42.0	43.6	67.5	128.4	172.9
57.5°	35.4	37.9	56.0	102.1	139.2
60°	29.6	32.9	50.2	78.2	107.0
62.5°	23.9	29.6	42.8	57.6	76.6
65°	19.8	28.0	36.2	40.3	47.8
67.5°	16.5	25.5	30.5	28.8	28.0
70°	14.0	23.1	25.5	23.1	23.9
72.5°	11.5	21.4	21.4	19.8	19.8
75°	9.9	18.9	18.1	17.3	17.3
77.5°	8.2	16.5	15.6	14.8	14.0
80°	6.6	13.2	13.2	12.4	11.5
82.5°	5.8	10.7	10.7	10.7	9.1
85°	4.1	9.1	9.9	9.1	7.4
87.5°	3.3	8.2	8.2	7.4	4.9
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	7.10	8.42	7.47	8.73	9.05	14.46	15.78	14.83	16.09	16.41
	3H	8.49	9.66	8.87	9.99	10.36	14.69	15.86	15.07	16.19	16.56
	4H	9.04	10.13	9.45	10.49	10.87	14.81	15.90	15.21	16.25	16.63
	6H	9.48	10.48	9.89	10.85	11.24	14.92	15.93	15.34	16.30	16.69
	8H	9.66	10.60	10.09	11.00	11.40	14.98	15.92	15.41	16.32	16.72
	12H	9.81	10.72	10.24	11.10	11.53	15.03	15.94	15.47	16.33	16.76
4H	2H	8.20	9.29	8.60	9.64	10.02	14.42	15.51	14.82	15.86	16.25
	3H	9.86	10.76	10.28	11.16	11.56	14.78	15.67	15.19	16.08	16.48
	4H	10.67	11.47	11.11	11.89	12.33	14.98	15.78	15.41	16.20	16.64
	6H	11.31	12.00	11.77	12.45	12.91	15.21	15.90	15.67	16.34	16.81
	8H	11.54	12.19	12.01	12.64	13.11	15.31	15.96	15.78	16.40	16.87
	12H	11.76	12.33	12.24	12.81	13.29	15.44	16.01	15.93	16.49	16.97
8H	4H	11.11	11.76	11.58	12.21	12.68	15.02	15.66	15.49	16.11	16.58
	6H	12.03	12.56	12.53	13.05	13.53	15.35	15.87	15.85	16.37	16.85
	8H	12.45	12.92	12.97	13.44	13.93	15.54	16.01	16.06	16.53	17.02
	12H	12.87	13.29	13.38	13.78	14.35	15.79	16.21	16.30	16.70	17.27
12H	4H	11.17	11.74	11.66	12.23	12.70	15.01	15.58	15.49	16.06	16.53
	6H	12.16	12.64	12.68	13.15	13.64	15.36	15.84	15.88	16.35	16.85
	8H	12.70	13.12	13.22	13.62	14.19	15.62	16.04	16.13	16.54	17.11