

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: P1059017

Luminaire Tested: S123RDRP-S1000D835-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1059017
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-S1000D835-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

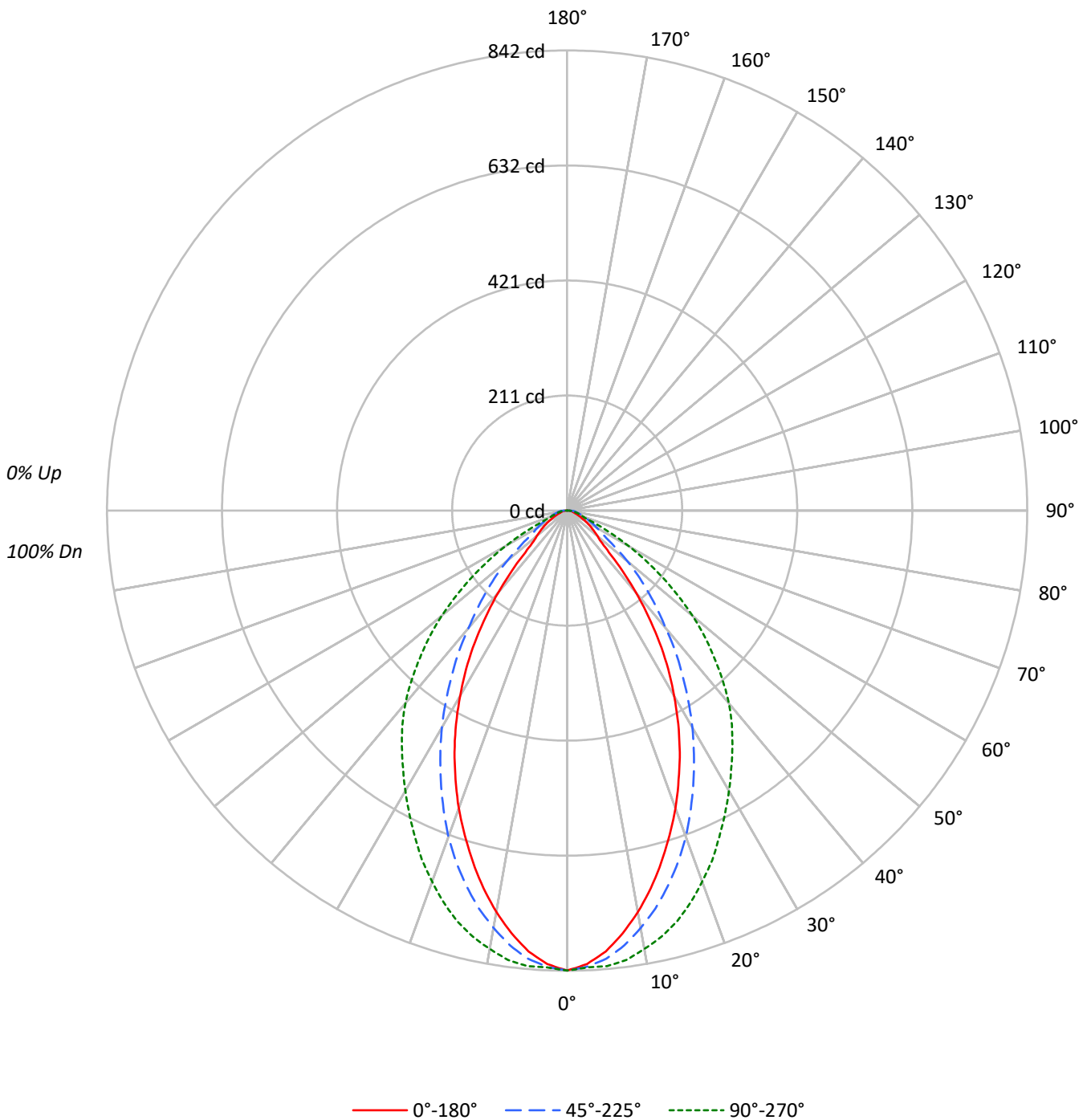
Lumens per Lamp: N/A
Luminaire Lumens: 1127.2 lumens
Efficiency: N/A
Efficacy: 32.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.07 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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

TEST NUMBER: P1059017

CATALOG NUMBER: S123RDRP-S1000D835-X4F0-XX-UDD-SVL-S

Luminous Intensity Polar Plot



TEST NUMBER: P1059017

CATALOG NUMBER: S123RDRP-S1000D835-X4F0-XX-UDD-SVL-S

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	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	58	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°	9882	9882	9882
5°	9544	9703	9862
10°	8893	9244	9713
15°	8095	8648	9454
20°	7246	7937	9027
25°	6320	7083	8533
30°	5314	6214	8030
35°	4227	5267	7556
40°	3014	4294	7062
45°	1795	3447	6325
50°	1324	2627	5477
55°	1108	1785	4352
60°	895	1473	3058
65°	717	1264	1639
70°	591	1095	1013
75°	558	1057	948
80°	582	1163	913
85°	822	1657	1159

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6325 cd/sqm

TEST NUMBER: P1059017

CATALOG NUMBER: S123RDRP-S1000D835-X4F0-XX-UDD-SVL-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.3	6.9
10°-20°	200.8	17.8
20°-30°	256.2	22.7
30°-40°	241.0	21.4
40°-50°	173.2	15.4
50°-60°	99.3	8.8
60°-70°	45.4	4.0
70°-80°	22.8	2.0
80°-90°	11.1	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°	534.3	47.4
0°-40°	775.3	68.8
0°-60°	1047.8	93.0
0°-90°	1127.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1127.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	842	842	842	842	842	
5°	810	826	823	829	837	75
15°	666	689	711	750	778	186
25°	488	510	547	606	659	223
35°	295	316	367	451	527	183
45°	108	132	208	306	381	91
55°	54	55	87	161	213	49
65°	26	36	46	50	59	26
75°	12	25	23	21	21	13
85°	6	12	12	11	9	6
90°	0	0	0	0	0	



TEST NUMBER: P1059017

CATALOG NUMBER: S123RDRP-S1000D835-X4F0-XX-UDD-SVL-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	841.6	841.6	841.6	841.6	841.6
2.5°	830.6	842.8	835.5	835.5	836.7
5°	809.7	825.6	823.2	829.3	836.7
7.5°	780.2	797.4	802.3	817.0	829.3
10°	745.8	765.4	775.3	798.6	814.6
12.5°	707.7	729.8	745.8	775.3	798.6
15°	665.9	689.3	711.4	749.5	777.7
17.5°	622.9	646.3	674.5	718.8	751.9
20°	579.9	603.3	635.2	681.9	722.4
22.5°	533.2	556.6	591.0	643.8	693.0
25°	487.8	509.9	546.7	605.7	658.6
27.5°	439.9	462.0	502.5	566.4	625.4
30°	391.9	414.1	458.3	527.1	592.2
32.5°	344.0	364.9	412.8	489.0	559.0
35°	294.9	315.8	367.4	450.9	527.1
37.5°	244.5	265.4	325.6	416.5	495.1
40°	196.6	219.9	280.1	382.1	460.7
42.5°	149.9	174.5	243.3	345.2	421.4
45°	108.1	131.5	207.6	305.9	380.9
47.5°	82.3	94.6	175.7	266.6	341.6
50°	72.5	73.7	143.8	231.0	299.8
52.5°	62.7	63.9	111.8	196.6	255.6
55°	54.1	55.3	87.2	161.0	212.6
57.5°	45.5	47.9	71.3	127.8	170.8
60°	38.1	43.0	62.7	97.1	130.2
62.5°	30.7	39.3	54.1	71.3	93.4
65°	25.8	35.6	45.5	50.4	59.0
67.5°	20.9	33.2	38.1	35.6	35.6
70°	17.2	29.5	31.9	29.5	29.5
72.5°	14.7	28.3	27.0	24.6	24.6
75°	12.3	24.6	23.3	20.9	20.9
77.5°	11.1	20.9	19.7	18.4	17.2
80°	8.6	17.2	17.2	16.0	13.5
82.5°	7.4	14.7	14.7	13.5	11.1
85°	6.1	12.3	12.3	11.1	8.6
87.5°	4.9	11.1	11.1	9.8	6.1
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1059017
 CATALOG NUMBER: S123RDRP-S1000D835-X4F0-XX-UDD-SVL-S

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	7.94	9.26	8.31	9.57	9.89	15.17	16.49	15.53	16.80	17.11
	3H	9.34	10.51	9.72	10.84	11.21	15.40	16.57	15.78	16.90	17.27
	4H	9.91	11.00	10.31	11.35	11.73	15.51	16.60	15.91	16.95	17.33
	6H	10.37	11.37	10.78	11.74	12.13	15.62	16.62	16.03	16.99	17.38
	8H	10.55	11.50	10.98	11.89	12.30	15.67	16.61	16.10	17.01	17.41
	12H	10.74	11.65	11.18	12.03	12.46	15.72	16.62	16.15	17.01	17.44
4H	2H	9.02	10.11	9.42	10.46	10.84	15.13	16.22	15.53	16.57	16.95
	3H	10.71	11.60	11.12	12.00	12.41	15.50	16.39	15.91	16.79	17.20
	4H	11.54	12.34	11.98	12.76	13.20	15.68	16.48	16.12	16.90	17.34
	6H	12.20	12.89	12.66	13.34	13.81	15.90	16.59	16.37	17.04	17.51
	8H	12.46	13.10	12.93	13.55	14.02	16.00	16.65	16.47	17.10	17.57
	12H	12.71	13.28	13.20	13.77	14.24	16.12	16.69	16.61	17.18	17.65
8H	4H	11.98	12.62	12.45	13.07	13.54	15.73	16.37	16.19	16.82	17.29
	6H	12.93	13.46	13.43	13.96	14.44	16.06	16.59	16.56	17.08	17.57
	8H	13.39	13.87	13.91	14.38	14.88	16.25	16.72	16.77	17.24	17.73
	12H	13.87	14.29	14.38	14.79	15.36	16.48	16.90	17.00	17.40	17.97
12H	4H	12.04	12.61	12.52	13.09	13.57	15.72	16.29	16.20	16.77	17.25
	6H	13.08	13.55	13.60	14.07	14.56	16.08	16.56	16.61	17.08	17.57
	8H	13.67	14.09	14.18	14.58	15.16	16.34	16.77	16.86	17.26	17.83