

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: P1058063

Luminaire Tested: S122RDRP-S675D850-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1058063
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-59)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDRP-S675D850-X4F0-XX-UDD-SVL-S
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

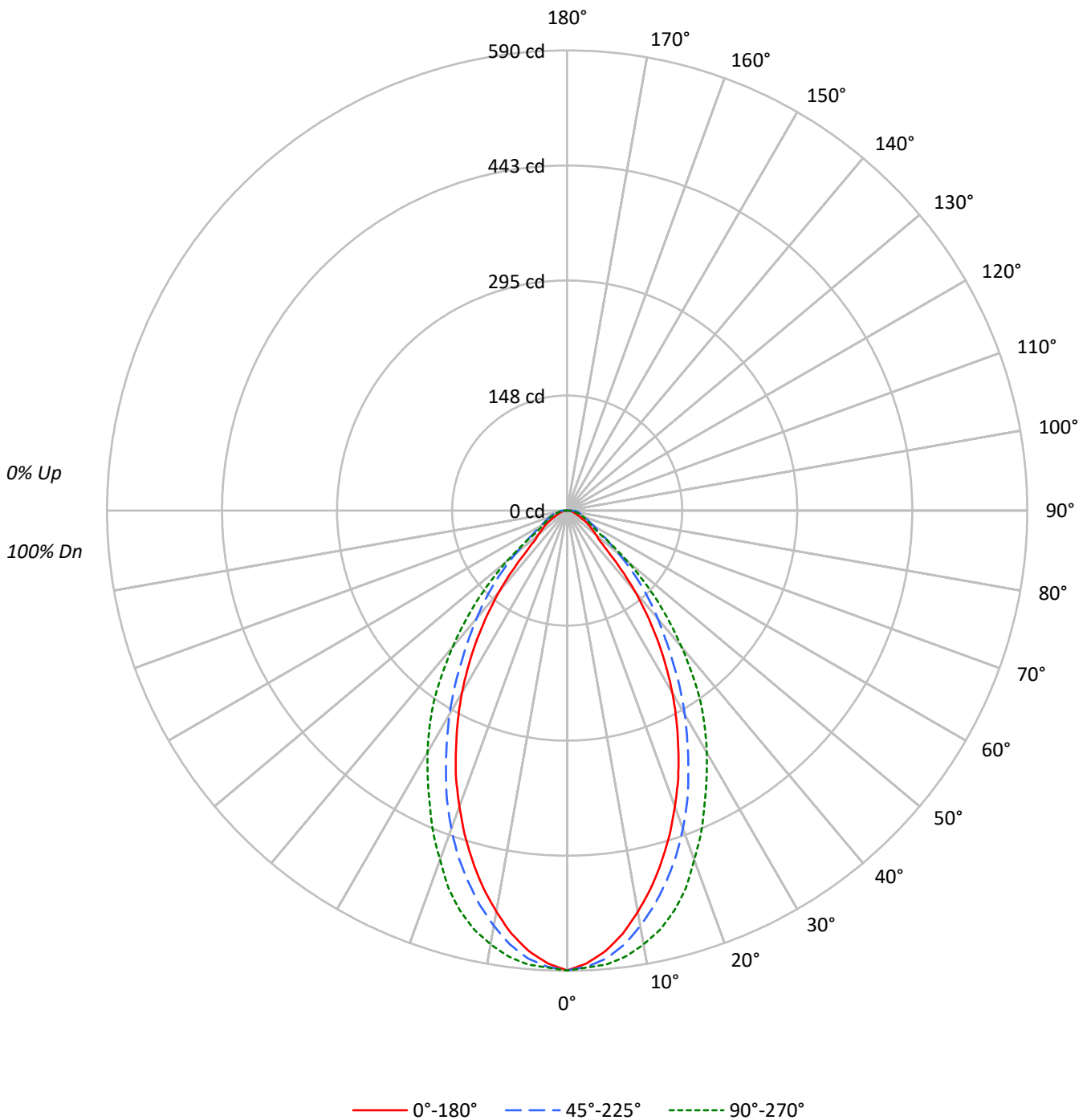
Lumens per Lamp: N/A
Luminaire Lumens: 711.2 lumens
Efficiency: N/A
Efficacy: 27.6 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.97 / 0.94
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
Input Voltage (V): 120
Input Current (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	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	101	99	97	98	96	94	94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	45	66	56	49	44	55	49	44	54	48	44	53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10880	10880	10880
5°	10497	10678	10819
10°	9783	10129	10579
15°	8916	9393	10140
20°	7925	8522	9355
25°	6865	7486	8482
30°	5749	6420	7626
35°	4532	5316	6713
40°	3249	4350	5502
45°	1902	3434	4259
50°	1375	2498	2874
55°	1155	1785	1506
60°	923	1447	1284
65°	760	1284	1188
70°	647	1230	1117
75°	620	1319	1084
80°	691	1615	1158
85°	1143	2541	1609

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4259 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.0	7.6
10°-20°	138.4	19.5
20°-30°	170.1	23.9
30°-40°	150.4	21.1
40°-50°	96.0	13.5
50°-60°	46.8	6.6
60°-70°	27.9	3.9
70°-80°	17.8	2.5
80°-90°	9.8	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°	362.5	51.0
0°-40°	512.9	72.1
0°-60°	655.7	92.2
0°-90°	711.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	711.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	590	590	590	590	590	
5°	567	579	576	579	584	53
15°	467	480	492	513	531	130
25°	337	349	368	390	417	154
35°	201	212	236	269	298	125
45°	73	94	132	148	163	61
55°	36	48	56	52	47	32
65°	17	33	29	27	27	17
75°	9	20	18	16	15	10
85°	5	11	12	11	8	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	589.6	589.6	589.6	589.6	589.6
2.5°	580.9	591.7	585.2	585.2	586.3
5°	566.7	578.7	576.5	578.7	584.1
7.5°	547.1	559.1	561.3	570.0	576.5
10°	522.1	534.1	540.6	554.8	564.6
12.5°	496.0	508.0	517.8	536.3	550.4
15°	466.7	479.7	491.7	513.4	530.8
17.5°	436.2	449.2	464.5	486.2	506.9
20°	403.6	415.5	434.0	454.7	476.4
22.5°	372.0	382.9	402.5	422.1	448.2
25°	337.2	349.2	367.7	390.5	416.6
27.5°	303.5	315.5	333.9	360.1	387.2
30°	269.8	280.6	301.3	328.5	357.9
32.5°	235.0	245.8	268.7	298.0	328.5
35°	201.2	212.1	236.0	268.7	298.0
37.5°	167.5	179.5	206.7	237.1	262.2
40°	134.9	149.0	180.6	206.7	228.4
42.5°	102.3	121.8	155.6	177.3	194.7
45°	72.9	93.5	131.6	147.9	163.2
47.5°	55.5	71.8	108.8	120.7	130.5
50°	47.9	58.7	87.0	95.7	100.1
52.5°	41.3	52.2	69.6	72.9	70.7
55°	35.9	47.9	55.5	52.2	46.8
57.5°	30.5	44.6	45.7	39.2	40.2
60°	25.0	40.2	39.2	33.7	34.8
62.5°	20.7	37.0	33.7	30.5	30.5
65°	17.4	32.6	29.4	27.2	27.2
67.5°	14.1	29.4	26.1	23.9	23.9
70°	12.0	26.1	22.8	20.7	20.7
72.5°	10.9	22.8	20.7	18.5	18.5
75°	8.7	19.6	18.5	16.3	15.2
77.5°	7.6	16.3	16.3	15.2	13.1
80°	6.5	14.1	15.2	13.1	10.9
82.5°	6.5	13.1	13.1	12.0	8.7
85°	5.4	10.9	12.0	10.9	7.6
87.5°	3.3	9.8	9.8	8.7	5.4
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	10.32	11.60	10.69	11.91	12.23	9.85	11.13	10.22	11.44	11.76
	3H	11.50	12.64	11.88	12.97	13.33	11.41	12.55	11.79	12.88	13.24
	4H	11.93	12.99	12.33	13.34	13.72	12.09	13.15	12.49	13.50	13.89
	6H	12.27	13.25	12.69	13.62	14.01	12.74	13.72	13.16	14.09	14.48
	8H	12.47	13.39	12.90	13.78	14.19	13.03	13.96	13.46	14.35	14.75
	12H	12.68	13.57	13.12	13.95	14.38	13.35	14.23	13.78	14.62	15.05
4H	2H	10.82	11.89	11.23	12.24	12.62	10.45	11.51	10.85	11.86	12.25
	3H	12.47	13.34	12.88	13.75	14.15	12.25	13.12	12.66	13.53	13.93
	4H	13.23	14.02	13.67	14.44	14.88	13.09	13.87	13.52	14.29	14.74
	6H	13.83	14.51	14.30	14.96	15.43	13.95	14.63	14.41	15.07	15.54
	8H	14.13	14.77	14.60	15.21	15.69	14.34	14.97	14.81	15.42	15.89
	12H	14.44	15.01	14.93	15.49	15.96	14.77	15.34	15.26	15.82	16.29
8H	4H	13.65	14.29	14.12	14.73	15.21	13.54	14.18	14.01	14.63	15.10
	6H	14.60	15.12	15.10	15.61	16.10	14.66	15.18	15.16	15.68	16.16
	8H	15.14	15.61	15.67	16.13	16.62	15.24	15.71	15.76	16.22	16.71
	12H	15.71	16.12	16.22	16.62	17.19	15.91	16.32	16.42	16.82	17.39
12H	4H	13.72	14.28	14.21	14.77	15.24	13.63	14.19	14.11	14.67	15.15
	6H	14.78	15.25	15.30	15.77	16.26	14.84	15.31	15.36	15.83	16.32
	8H	15.48	15.89	15.99	16.39	16.96	15.56	15.97	16.07	16.47	17.04