

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: P1058045

Luminaire Tested: S122RDRP-S675D835-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1058045
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-S675D835-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

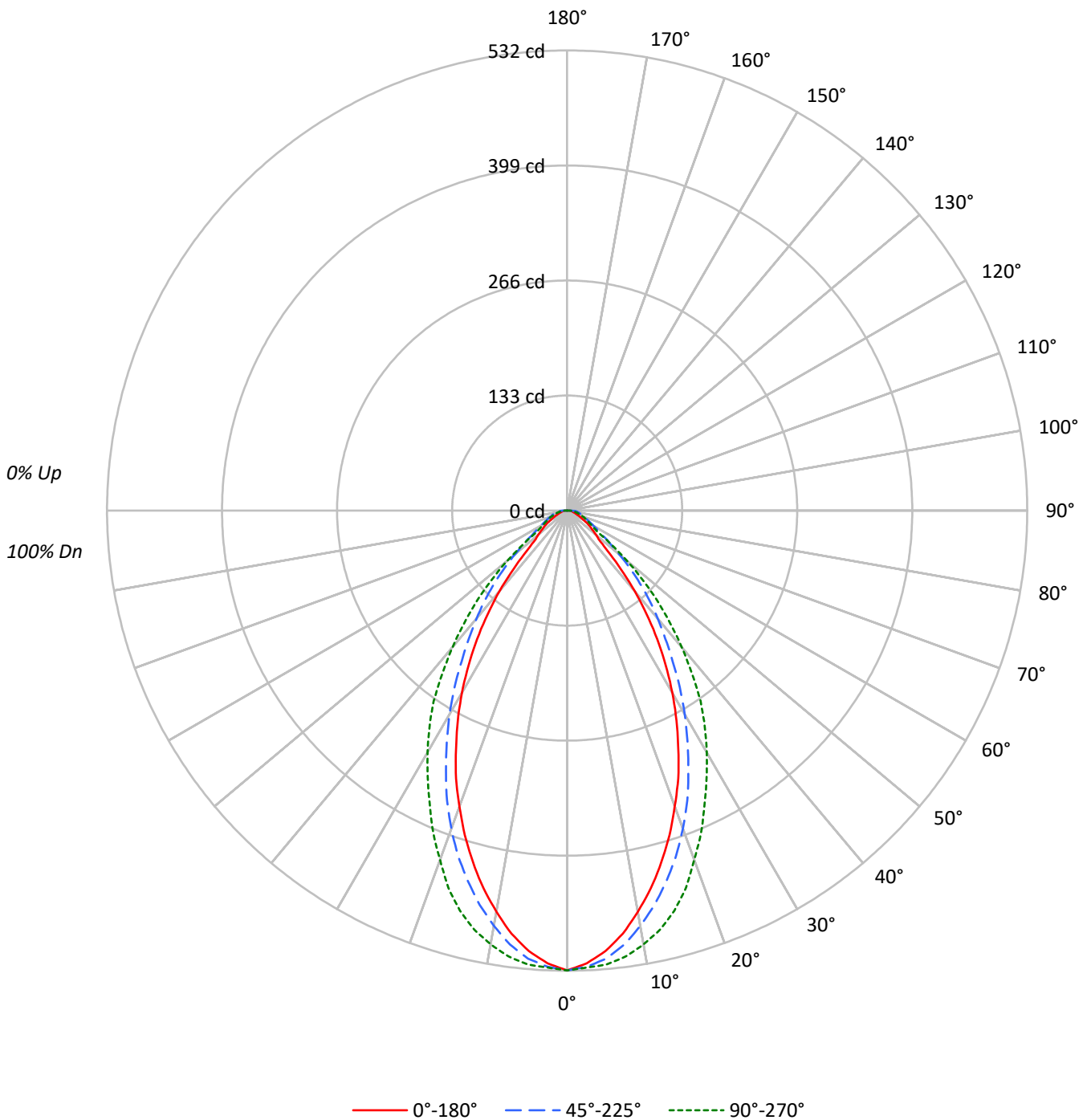
Lumens per Lamp: N/A
Luminaire Lumens: 641.4 lumens
Efficiency: N/A
Efficacy: 24.9 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.97 / 0.94
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	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°	9809	9809	9809
5°	9465	9630	9756
10°	8821	9134	9539
15°	8039	8469	9145
20°	7146	7686	8436
25°	6191	6749	7649
30°	5184	5789	6876
35°	4089	4794	6055
40°	2929	3922	4962
45°	1714	3098	3839
50°	1240	2253	2589
55°	1042	1609	1358
60°	834	1303	1159
65°	685	1157	1070
70°	583	1111	1003
75°	556	1191	977
80°	627	1456	1041
85°	1037	2287	1461

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3839 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.7	7.6
10°-20°	124.8	19.5
20°-30°	153.4	23.9
30°-40°	135.6	21.1
40°-50°	86.6	13.5
50°-60°	42.2	6.6
60°-70°	25.2	3.9
70°-80°	16.1	2.5
80°-90°	8.8	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°	326.9	51.0
0°-40°	462.5	72.1
0°-60°	591.3	92.2
0°-90°	641.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	641.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	532	532	532	532	532	
5°	511	522	520	522	527	48
15°	421	433	443	463	479	117
25°	304	315	332	352	376	139
35°	182	191	213	242	269	113
45°	66	84	119	133	147	55
55°	32	43	50	47	42	29
65°	16	29	26	24	24	16
75°	8	18	17	15	14	9
85°	5	10	11	10	7	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	531.6	531.6	531.6	531.6	531.6
2.5°	523.8	533.6	527.7	527.7	528.7
5°	511.0	521.8	519.9	521.8	526.7
7.5°	493.4	504.2	506.1	514.0	519.9
10°	470.8	481.6	487.5	500.2	509.1
12.5°	447.3	458.1	466.9	483.6	496.3
15°	420.8	432.6	443.3	463.0	478.7
17.5°	393.3	405.1	418.8	438.4	457.1
20°	363.9	374.7	391.4	410.0	429.6
22.5°	335.5	345.3	362.9	380.6	404.1
25°	304.1	314.9	331.5	352.1	375.7
27.5°	273.7	284.4	301.1	324.7	349.2
30°	243.3	253.1	271.7	296.2	322.7
32.5°	211.9	221.7	242.3	268.8	296.2
35°	181.5	191.3	212.8	242.3	268.8
37.5°	151.1	161.8	186.4	213.8	236.4
40°	121.6	134.4	162.8	186.4	206.0
42.5°	92.2	109.9	140.3	159.9	175.6
45°	65.7	84.4	118.7	133.4	147.1
47.5°	50.0	64.7	98.1	108.9	117.7
50°	43.2	53.0	78.5	86.3	90.2
52.5°	37.3	47.1	62.8	65.7	63.8
55°	32.4	43.2	50.0	47.1	42.2
57.5°	27.5	40.2	41.2	35.3	36.3
60°	22.6	36.3	35.3	30.4	31.4
62.5°	18.6	33.3	30.4	27.5	27.5
65°	15.7	29.4	26.5	24.5	24.5
67.5°	12.8	26.5	23.5	21.6	21.6
70°	10.8	23.5	20.6	18.6	18.6
72.5°	9.8	20.6	18.6	16.7	16.7
75°	7.8	17.7	16.7	14.7	13.7
77.5°	6.9	14.7	14.7	13.7	11.8
80°	5.9	12.8	13.7	11.8	9.8
82.5°	5.9	11.8	11.8	10.8	7.8
85°	4.9	9.8	10.8	9.8	6.9
87.5°	2.9	8.8	8.8	7.8	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	9.96	11.24	10.33	11.55	11.87	9.49	10.76	9.85	11.08	11.39
	3H	11.14	12.28	11.52	12.61	12.97	11.05	12.19	11.43	12.52	12.88
	4H	11.57	12.63	11.97	12.98	13.36	11.73	12.79	12.13	13.14	13.53
	6H	11.91	12.89	12.33	13.26	13.66	12.38	13.36	12.79	13.73	14.12
	8H	12.11	13.04	12.54	13.43	13.83	12.67	13.59	13.10	13.98	14.39
	12H	12.33	13.22	12.76	13.60	14.03	12.98	13.87	13.42	14.25	14.68
4H	2H	10.46	11.53	10.87	11.88	12.26	10.09	11.15	10.49	11.50	11.88
	3H	12.11	12.98	12.52	13.39	13.79	11.89	12.76	12.30	13.16	13.57
	4H	12.87	13.66	13.31	14.08	14.52	12.73	13.51	13.16	13.93	14.37
	6H	13.48	14.16	13.94	14.60	15.07	13.58	14.26	14.05	14.71	15.18
	8H	13.78	14.42	14.25	14.86	15.33	13.97	14.61	14.44	15.05	15.53
	12H	14.09	14.66	14.58	15.14	15.61	14.41	14.97	14.90	15.46	15.93
8H	4H	13.29	13.93	13.76	14.37	14.85	13.18	13.82	13.65	14.27	14.74
	6H	14.24	14.77	14.75	15.26	15.74	14.29	14.82	14.80	15.31	15.79
	8H	14.79	15.26	15.31	15.78	16.27	14.87	15.34	15.39	15.86	16.35
	12H	15.36	15.77	15.87	16.27	16.84	15.54	15.96	16.06	16.45	17.02
12H	4H	13.36	13.92	13.85	14.41	14.88	13.27	13.83	13.75	14.31	14.79
	6H	14.43	14.90	14.95	15.41	15.90	14.48	14.95	15.00	15.46	15.96
	8H	15.12	15.54	15.64	16.03	16.60	15.19	15.60	15.70	16.10	16.67