

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: P1057844

Luminaire Tested: S122RDRP-S1005D935-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1057844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-60)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDRP-S1005D935-X4F0-XX-UDD-BVL-S
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

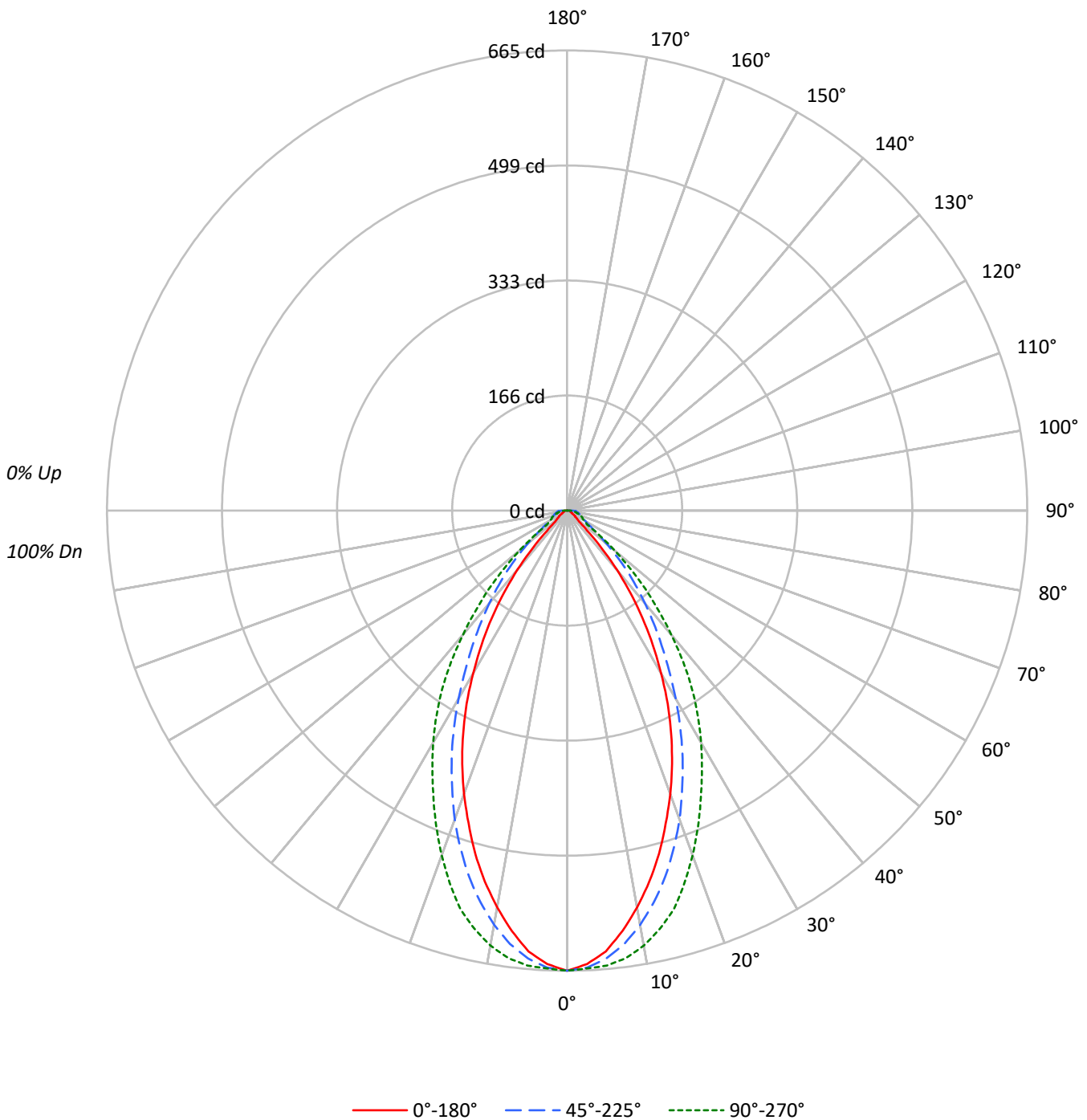
Lumens per Lamp: N/A
Luminaire Lumens: 716.8 lumens
Efficiency: N/A
Efficacy: 17.1 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.95 / 0.9
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61
6	82	72	65	60	80	71	64	59	69	63	59	68	63	59	66	62	58	57
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52
8	73	62	55	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12269	12269	12269
5°	11845	12034	12223
10°	10907	11385	11958
15°	9808	10465	11389
20°	8556	9329	10405
25°	7236	8040	9311
30°	5781	6678	8250
35°	4275	5366	7087
40°	2700	4203	5646
45°	1065	3158	4154
50°	548	2121	2561
55°	450	1393	1149
60°	328	1129	1033
65°	279	1057	1057
70°	275	1101	1030
75°	364	1269	1091
80°	542	1626	1222
85°	805	2689	1609

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 87.5°
 Luminance: 5373 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.8	8.5
10°-20°	153.6	21.4
20°-30°	182.6	25.5
30°-40°	151.9	21.2
40°-50°	84.8	11.8
50°-60°	34.3	4.8
60°-70°	21.9	3.1
70°-80°	16.4	2.3
80°-90°	10.5	1.5
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°	397.0	55.4
0°-40°	548.9	76.6
0°-60°	667.9	93.2
0°-90°	716.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	716.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	665	665	665	665	665	
5°	640	651	650	655	660	59
15°	513	529	548	576	596	143
25°	355	369	395	426	457	162
35°	190	208	238	278	315	118
45°	41	69	121	141	159	38
55°	14	29	43	42	36	12
65°	6	26	24	23	24	6
75°	5	18	18	17	15	5
85°	4	12	13	12	8	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	664.9	664.9	664.9	664.9	664.9
2.5°	656.0	666.2	661.1	661.1	662.4
5°	639.5	650.9	649.7	654.8	659.9
7.5°	612.7	625.5	631.8	643.3	652.2
10°	582.1	596.2	607.6	625.5	638.2
12.5°	549.0	563.0	579.6	602.5	619.1
15°	513.4	528.6	547.8	575.8	596.2
17.5°	473.9	490.4	512.1	542.7	564.3
20°	435.7	452.2	475.1	505.7	529.9
22.5°	396.2	410.2	434.4	465.0	494.3
25°	355.4	369.4	394.9	425.5	457.3
27.5°	314.6	328.7	354.1	386.0	421.6
30°	271.3	286.6	313.4	349.0	387.2
32.5°	230.6	245.9	273.9	313.4	351.6
35°	189.8	207.6	238.2	277.7	314.6
37.5°	150.3	170.7	205.1	242.0	275.2
40°	112.1	133.8	174.5	206.4	234.4
42.5°	73.9	99.4	146.5	173.2	194.9
45°	40.8	68.8	121.0	141.4	159.2
47.5°	22.9	44.6	95.5	112.1	122.3
50°	19.1	33.1	73.9	85.3	89.2
52.5°	15.3	30.6	56.0	62.4	59.9
55°	14.0	29.3	43.3	42.0	35.7
57.5°	11.5	29.3	34.4	30.6	30.6
60°	8.9	28.0	30.6	26.8	28.0
62.5°	7.6	26.8	28.0	25.5	25.5
65°	6.4	25.5	24.2	22.9	24.2
67.5°	5.1	22.9	22.9	21.7	21.7
70°	5.1	21.7	20.4	19.1	19.1
72.5°	5.1	19.1	19.1	17.8	17.8
75°	5.1	17.8	17.8	16.6	15.3
77.5°	5.1	15.3	16.6	15.3	14.0
80°	5.1	14.0	15.3	14.0	11.5
82.5°	5.1	12.7	14.0	12.7	10.2
85°	3.8	11.5	12.7	11.5	7.6
87.5°	3.8	11.5	12.7	10.2	6.4
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	7.08	8.30	7.44	8.61	8.92	8.16	9.38	8.52	9.69	10.00
	3H	8.41	9.49	8.79	9.83	10.19	10.19	11.27	10.57	11.60	11.97
	4H	8.98	9.99	9.39	10.35	10.73	11.14	12.15	11.55	12.50	12.89
	6H	9.55	10.48	9.97	10.85	11.25	12.09	13.02	12.50	13.39	13.78
	8H	9.88	10.75	10.31	11.15	11.55	12.54	13.42	12.97	13.81	14.21
	12H	10.18	11.02	10.61	11.40	11.84	12.96	13.80	13.39	14.18	14.61
4H	2H	8.04	9.05	8.44	9.40	9.79	8.83	9.84	9.24	10.19	10.58
	3H	10.07	10.90	10.48	11.31	11.71	11.11	11.95	11.53	12.35	12.76
	4H	11.15	11.89	11.58	12.31	12.76	12.26	13.01	12.70	13.43	13.88
	6H	12.02	12.67	12.48	13.11	13.58	13.43	14.08	13.90	14.53	15.00
	8H	12.43	13.03	12.90	13.48	13.95	13.99	14.60	14.47	15.05	15.52
	12H	12.81	13.34	13.30	13.83	14.30	14.54	15.07	15.02	15.56	16.03
8H	4H	11.92	12.52	12.39	12.97	13.44	12.82	13.42	13.29	13.87	14.34
	6H	13.26	13.75	13.76	14.25	14.73	14.27	14.76	14.77	15.26	15.74
	8H	13.97	14.42	14.50	14.93	15.43	15.03	15.48	15.55	15.99	16.49
	12H	14.66	15.06	15.18	15.55	16.13	15.82	16.21	16.33	16.70	17.28
12H	4H	12.07	12.61	12.56	13.09	13.57	12.92	13.46	13.41	13.94	14.42
	6H	13.58	14.03	14.10	14.54	15.04	14.49	14.94	15.02	15.46	15.95
	8H	14.48	14.87	15.00	15.37	15.94	15.40	15.79	15.91	16.29	16.86