

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: P1057839

Luminaire Tested: S122RDRP-S1005D930-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1057839
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-56)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDRP-S1005D930-X4F0-XX-UDD-SVL-W
Description: DEFINE 2 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

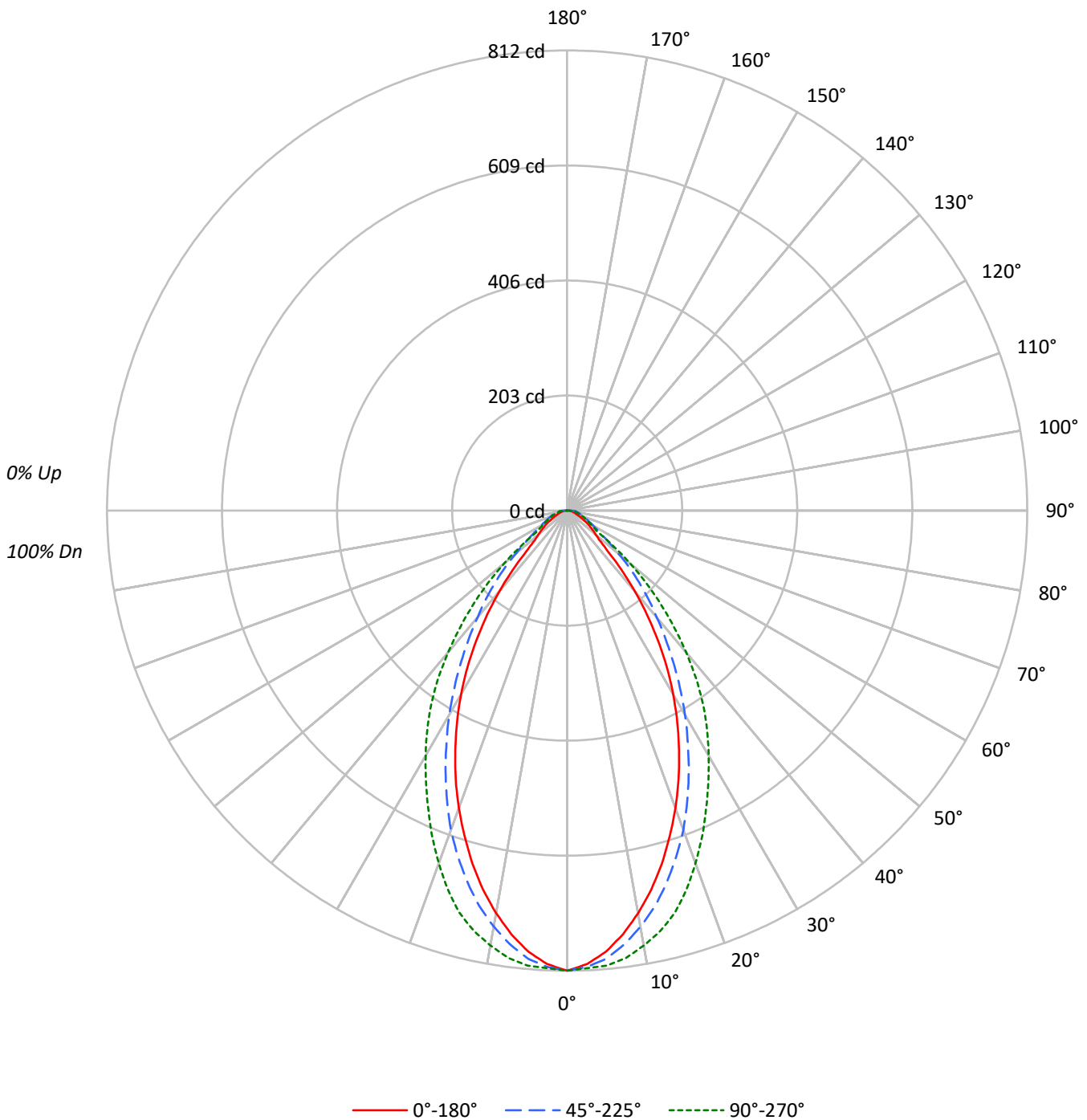
Lumens per Lamp: N/A
Luminaire Lumens: 984.7 lumens
Efficiency: N/A
Efficacy: 23.6 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.98 / 0.95
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14980	14980	14980
5°	14478	14702	14926
10°	13515	13967	14600
15°	12327	12973	14033
20°	10967	11772	13003
25°	9504	10339	11813
30°	7967	8866	10641
35°	6276	7337	9430
40°	4476	5928	7874
45°	2643	4689	6106
50°	1903	3393	4154
55°	1592	2445	2094
60°	1292	1960	1779
65°	1052	1738	1633
70°	912	1694	1559
75°	863	1718	1547
80°	893	2051	1668
85°	1270	3324	2032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6106 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.5	7.6
10°-20°	191.3	19.4
20°-30°	236.0	24.0
30°-40°	209.9	21.3
40°-50°	134.0	13.6
50°-60°	64.3	6.5
60°-70°	37.8	3.8
70°-80°	24.1	2.4
80°-90°	12.9	1.3
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°	501.7	51.0
0°-40°	711.6	72.3
0°-60°	909.9	92.4
0°-90°	984.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	984.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	812	812	812	812	812	
5°	782	796	794	798	806	73
15°	645	661	679	710	735	180
25°	467	485	508	544	580	214
35°	279	300	326	375	419	173
45°	101	132	180	209	234	85
55°	50	64	76	74	65	45
65°	24	43	40	36	37	24
75°	12	26	24	23	22	13
85°	6	14	16	13	10	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	811.8	811.8	811.8	811.8	811.8
2.5°	800.9	814.2	805.8	805.8	808.2
5°	781.6	796.1	793.7	798.5	805.8
7.5°	753.9	769.6	772.0	785.3	796.1
10°	721.3	738.2	745.4	764.7	779.2
12.5°	685.1	702.0	715.3	739.4	759.9
15°	645.3	661.0	679.1	710.5	734.6
17.5°	601.9	622.4	640.5	673.1	700.8
20°	558.5	577.8	599.5	630.9	662.2
22.5°	513.9	531.9	553.7	586.2	622.4
25°	466.8	484.9	507.8	544.0	580.2
27.5°	421.0	439.1	460.8	500.6	539.2
30°	373.9	392.0	416.1	457.2	499.4
32.5°	326.9	346.2	370.3	414.9	459.6
35°	278.6	300.4	325.7	375.1	418.6
37.5°	231.6	253.3	284.7	332.9	373.9
40°	185.8	211.1	246.1	289.5	326.9
42.5°	141.1	168.9	212.3	247.3	279.8
45°	101.3	131.5	179.7	208.7	234.0
47.5°	77.2	98.9	148.4	171.3	189.4
50°	66.3	79.6	118.2	135.1	144.7
52.5°	57.9	70.0	94.1	102.5	102.5
55°	49.5	63.9	76.0	73.6	65.1
57.5°	42.2	57.9	62.7	53.1	55.5
60°	35.0	53.1	53.1	47.0	48.2
62.5°	28.9	49.5	45.8	41.0	42.2
65°	24.1	43.4	39.8	36.2	37.4
67.5°	19.3	38.6	35.0	32.6	32.6
70°	16.9	35.0	31.4	28.9	28.9
72.5°	14.5	30.2	27.7	25.3	25.3
75°	12.1	26.5	24.1	22.9	21.7
77.5°	10.9	22.9	21.7	19.3	18.1
80°	8.4	19.3	19.3	18.1	15.7
82.5°	7.2	16.9	16.9	15.7	13.3
85°	6.0	14.5	15.7	13.3	9.6
87.5°	4.8	13.3	13.3	10.9	7.2
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	11.08	12.35	11.44	12.66	12.98	10.87	12.14	11.23	12.46	12.77
	3H	12.31	13.44	12.69	13.77	14.14	12.46	13.59	12.84	13.92	14.29
	4H	12.76	13.82	13.16	14.17	14.55	13.17	14.23	13.58	14.58	14.97
	6H	13.14	14.11	13.56	14.49	14.88	13.83	14.80	14.24	15.17	15.57
	8H	13.29	14.22	13.72	14.61	15.01	14.16	15.08	14.59	15.47	15.88
	12H	13.45	14.33	13.88	14.72	15.15	14.45	15.34	14.89	15.72	16.15
4H	2H	11.62	12.68	12.03	13.03	13.42	11.46	12.52	11.86	12.87	13.25
	3H	13.32	14.19	13.73	14.60	15.00	13.29	14.17	13.71	14.57	14.97
	4H	14.11	14.90	14.55	15.32	15.76	14.17	14.95	14.60	15.37	15.81
	6H	14.76	15.44	15.22	15.88	16.35	15.01	15.69	15.48	16.14	16.60
	8H	15.01	15.64	15.48	16.09	16.56	15.44	16.07	15.91	16.52	16.99
	12H	15.25	15.81	15.74	16.29	16.77	15.84	16.40	16.33	16.88	17.36
8H	4H	14.53	15.17	15.00	15.61	16.08	14.58	15.22	15.05	15.67	16.14
	6H	15.51	16.03	16.01	16.53	17.01	15.67	16.19	16.17	16.69	17.17
	8H	16.00	16.47	16.52	16.98	17.48	16.27	16.73	16.79	17.25	17.74
	12H	16.50	16.92	17.02	17.41	17.98	16.87	17.28	17.38	17.77	18.35
12H	4H	14.60	15.16	15.09	15.64	16.12	14.66	15.22	15.15	15.70	16.18
	6H	15.68	16.15	16.20	16.66	17.15	15.84	16.30	16.36	16.82	17.31
	8H	16.31	16.73	16.83	17.22	17.79	16.55	16.96	17.07	17.46	18.03