

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: P1059784

Luminaire Tested: S123RDRP-H775D930-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1059784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-28)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDRP-H775D930-X4F0-XX-UDD-WVL-B
Description: DEFINE 3 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

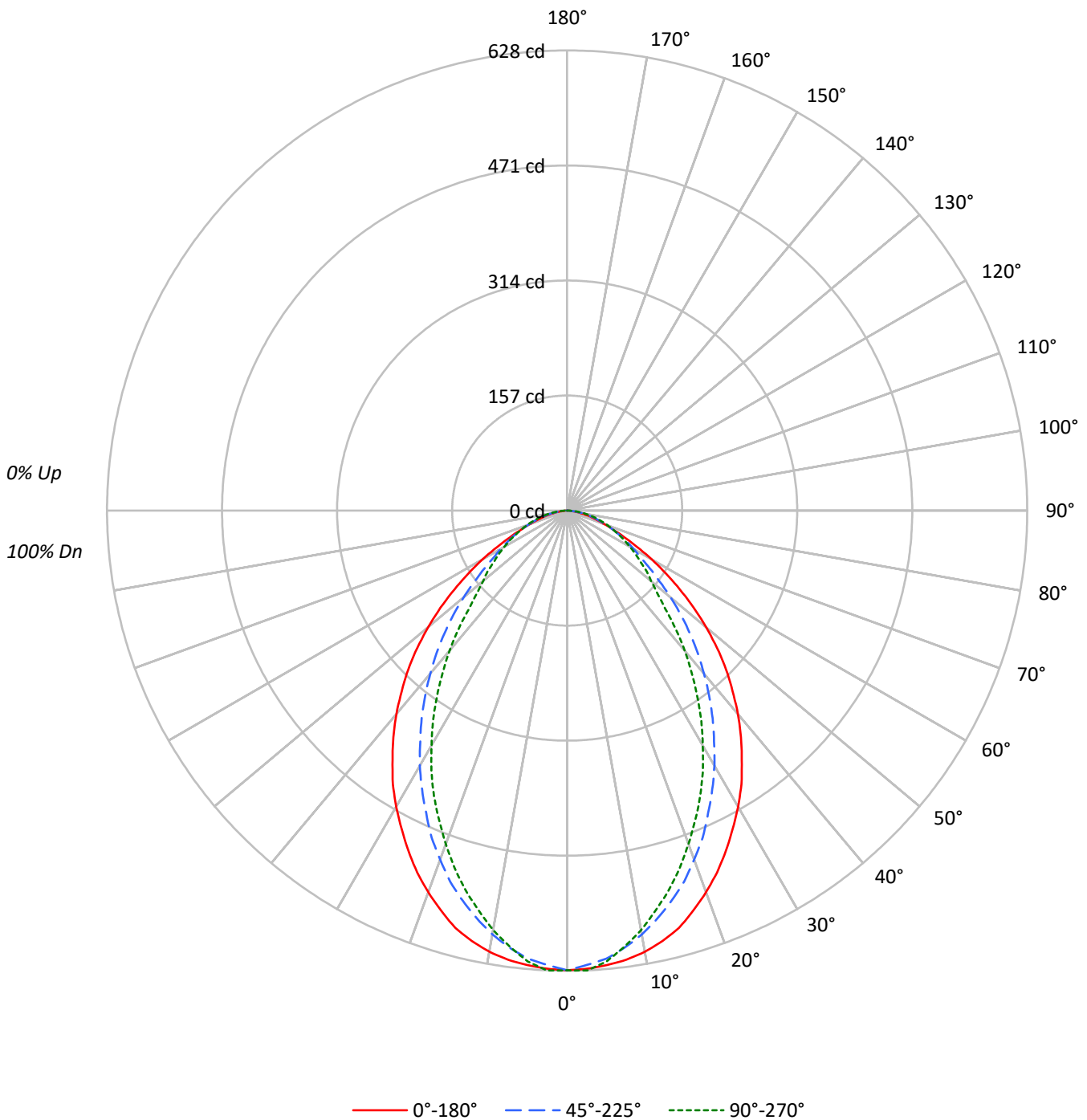
Lumens per Lamp: N/A
Luminaire Lumens: 1097.2 lumens
Efficiency: N/A
Efficacy: 46.7 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.95 / 1.09
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.5
Input Voltage (V): 120
Input Current (Ain): 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	89
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78
3	94	85	78	73	92	84	77	72	81	75	71	78	73	69	76	72	68
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	53	48	44
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	37
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7367	7367	7367
5°	7341	7235	7280
10°	7291	7004	6932
15°	7169	6701	6517
20°	6925	6332	6049
25°	6643	5900	5569
30°	6328	5449	5020
35°	5956	4961	4442
40°	5560	4450	3826
45°	5096	3932	3144
50°	4518	3374	2727
55°	3845	2825	2502
60°	3135	2461	2320
65°	2390	2178	2159
70°	1864	1943	2019
75°	1506	1747	1883
80°	1123	1427	1731
85°	606	916	1522

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5096 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.2	5.3
10°-20°	156.7	14.3
20°-30°	213.0	19.4
30°-40°	220.8	20.1
40°-50°	186.2	17.0
50°-60°	132.2	12.0
60°-70°	80.8	7.4
70°-80°	40.2	3.7
80°-90°	9.1	0.8
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°	427.9	39.0
0°-40°	648.7	59.1
0°-60°	967.1	88.1
0°-90°	1097.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1097.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	627	627	627	627	627	
5°	623	623	614	618	618	59
15°	590	578	551	541	536	165
25°	513	490	455	439	430	236
35°	416	384	346	322	310	260
45°	307	274	237	204	189	236
55°	188	168	138	126	122	169
65°	86	83	78	78	78	88
75°	33	35	38	40	42	36
85°	4	5	7	10	11	6
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	627.4	627.4	627.4	627.4	627.4
2.5°	625.8	626.6	620.6	627.4	628.1
5°	622.8	622.8	613.8	617.6	617.6
7.5°	618.3	616.8	601.7	601.7	600.2
10°	611.5	607.0	587.4	583.6	581.4
12.5°	601.7	594.2	570.0	563.3	558.7
15°	589.7	578.3	551.2	541.4	536.1
17.5°	572.3	561.0	530.8	517.3	511.2
20°	554.2	537.6	506.7	493.1	484.1
22.5°	534.6	513.5	483.3	466.7	456.9
25°	512.7	490.1	455.4	438.8	429.8
27.5°	489.4	464.5	429.0	410.2	401.1
30°	466.7	438.1	401.9	380.8	370.2
32.5°	442.6	410.2	373.2	351.4	340.8
35°	415.5	383.8	346.1	322.0	309.9
37.5°	389.8	357.4	318.2	292.6	279.0
40°	362.7	330.3	290.3	263.9	249.6
42.5°	334.0	303.1	263.9	233.0	219.4
45°	306.9	274.5	236.8	204.3	189.3
47.5°	277.5	247.3	210.4	177.2	166.6
50°	247.3	219.4	184.7	154.6	149.3
52.5°	217.9	194.5	159.1	139.5	137.2
55°	187.8	168.1	138.0	125.9	122.2
57.5°	159.9	145.5	118.4	112.4	110.8
60°	133.5	121.4	104.8	101.0	98.8
62.5°	107.8	101.0	91.2	89.7	88.2
65°	86.0	82.9	78.4	78.4	77.7
67.5°	67.9	67.9	67.1	68.6	67.9
70°	54.3	55.0	56.6	58.1	58.8
72.5°	43.0	45.2	46.7	49.0	49.8
75°	33.2	35.4	38.5	40.0	41.5
77.5°	24.1	26.4	29.4	31.7	33.2
80°	16.6	18.1	21.1	24.1	25.6
82.5°	10.6	11.3	13.6	16.6	18.1
85°	4.5	5.3	6.8	9.8	11.3
87.5°	0.0	0.0	0.8	3.0	5.3
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	15.75	17.20	16.11	17.51	17.83	13.85	15.30	14.21	15.61	15.92
	3H	16.64	17.94	17.02	18.27	18.63	15.42	16.71	15.80	17.04	17.41
	4H	16.93	18.14	17.33	18.49	18.87	16.01	17.23	16.42	17.58	17.96
	6H	17.08	18.19	17.49	18.56	18.95	16.47	17.58	16.88	17.95	18.34
	8H	17.10	18.16	17.53	18.55	18.95	16.61	17.68	17.04	18.07	18.47
	12H	17.09	18.11	17.52	18.49	18.92	16.71	17.73	17.14	18.11	18.54
4H	2H	15.99	17.20	16.39	17.55	17.93	14.39	15.60	14.79	15.95	16.33
	3H	17.10	18.10	17.52	18.51	18.91	16.16	17.16	16.57	17.56	17.96
	4H	17.49	18.39	17.93	18.81	19.25	16.87	17.77	17.31	18.19	18.63
	6H	17.74	18.51	18.19	18.96	19.42	17.44	18.22	17.90	18.67	19.13
	8H	17.78	18.51	18.24	18.95	19.42	17.64	18.36	18.10	18.81	19.28
	12H	17.79	18.43	18.27	18.91	19.39	17.77	18.42	18.26	18.90	19.37
8H	4H	17.65	18.38	18.12	18.82	19.29	17.08	17.81	17.55	18.25	18.72
	6H	17.96	18.56	18.46	19.06	19.53	17.76	18.36	18.26	18.85	19.33
	8H	18.04	18.58	18.56	19.09	19.58	18.01	18.55	18.53	19.06	19.55
	12H	18.08	18.55	18.59	19.04	19.61	18.22	18.70	18.73	19.19	19.76
12H	4H	17.66	18.30	18.14	18.78	19.26	17.08	17.73	17.56	18.21	18.68
	6H	17.98	18.52	18.50	19.03	19.52	17.77	18.30	18.28	18.82	19.31
	8H	18.09	18.57	18.61	19.06	19.63	18.07	18.54	18.58	19.04	19.60