

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: P1059381

Luminaire Tested: S123RDRP-S775D930-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1059381
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-64)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDRP-S775D930-X4F0-XX-UDD-WVL-W
Description: DEFINE 3 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

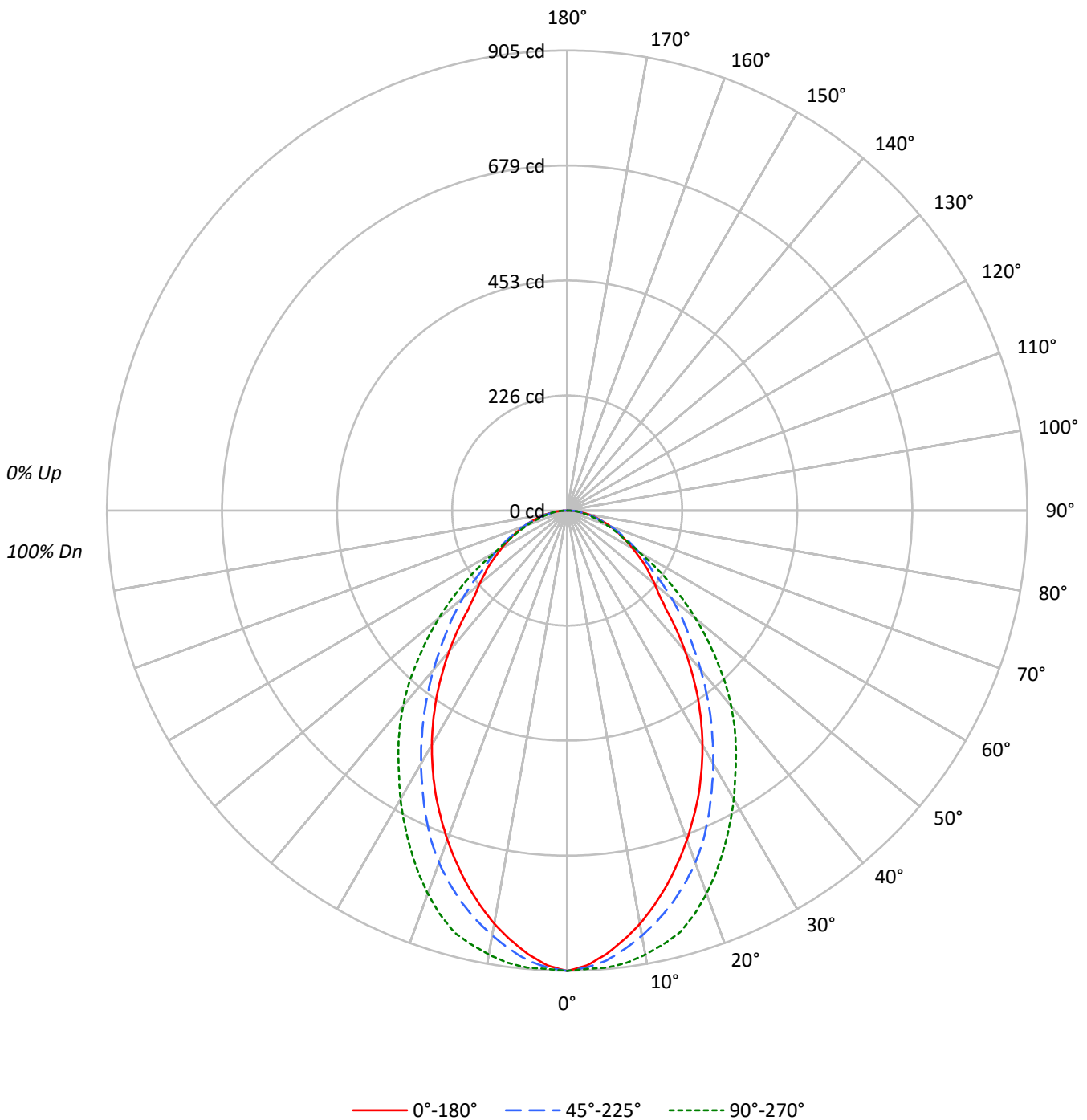
Lumens per Lamp: N/A
Luminaire Lumens: 1591.0 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.1 / 1.09
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89					87				
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77					75				
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68					66				
4	87	76	69	63	85	75	68	62	73	66	61	70	65	61	68	64	60					58				
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53					51				
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48					46				
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43					41				
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39					38				
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36					34				
10	58	46	39	34	57	45	38	34	45	38	34	44	38	33	43	37	33					32				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10632	10632	10632
5°	10323	10471	10636
10°	9839	10117	10573
15°	9255	9710	10439
20°	8607	9211	10019
25°	7945	8541	9470
30°	7216	7796	8885
35°	6422	7037	8298
40°	5541	6271	7692
45°	4580	5551	6897
50°	4114	4896	6021
55°	3812	4178	4993
60°	3513	3807	3826
65°	3270	3443	3204
70°	3076	3131	2808
75°	2899	2795	2473
80°	2739	2529	2319
85°	2627	2829	2627

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6897 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.9	5.3
10°-20°	225.9	14.2
20°-30°	305.6	19.2
30°-40°	314.1	19.7
40°-50°	263.8	16.6
50°-60°	189.1	11.9
60°-70°	120.4	7.6
70°-80°	66.2	4.2
80°-90°	22.1	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°	615.4	38.7
0°-40°	929.5	58.4
0°-60°	1382.4	86.9
0°-90°	1591.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1591.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	905	905	905	905	905	
5°	876	891	888	894	902	82
15°	761	782	799	833	859	213
25°	613	637	659	695	731	281
35°	448	472	491	534	579	279
45°	276	300	334	383	415	218
55°	186	190	204	231	244	166
65°	118	125	124	117	115	117
75°	64	70	62	57	54	68
85°	20	20	21	22	20	21
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	905.4	905.4	905.4	905.4	905.4
2.5°	895.3	907.8	899.2	900.0	902.3
5°	875.8	891.4	888.3	894.5	902.3
7.5°	851.7	868.8	869.6	884.4	896.8
10°	825.2	843.1	848.5	871.1	886.7
12.5°	794.0	813.5	825.2	853.2	873.5
15°	761.3	782.3	798.7	833.0	858.7
17.5°	725.4	748.0	769.1	805.7	832.2
20°	688.8	713.0	737.1	771.4	801.8
22.5°	650.6	675.6	700.5	734.0	767.5
25°	613.2	636.6	659.2	695.0	730.9
27.5°	572.7	596.9	616.3	656.1	693.5
30°	532.2	556.3	575.0	616.3	655.3
32.5°	490.1	515.0	532.2	575.0	615.6
35°	448.0	472.2	490.9	534.5	578.9
37.5°	403.6	430.1	448.8	497.9	541.5
40°	361.5	386.5	409.1	460.5	501.8
42.5°	317.9	343.6	369.3	422.3	460.5
45°	275.8	300.0	334.3	382.6	415.3
47.5°	245.4	261.0	300.8	341.3	372.5
50°	225.2	231.4	268.0	303.9	329.6
52.5°	204.9	209.6	234.5	267.3	286.7
55°	186.2	190.1	204.1	231.4	243.9
57.5°	166.0	169.9	181.6	197.1	204.1
60°	149.6	152.7	162.1	164.4	162.9
62.5°	133.2	137.9	142.6	137.1	134.8
65°	117.7	124.7	123.9	116.9	115.3
67.5°	103.6	110.6	106.7	99.7	97.4
70°	89.6	96.6	91.2	84.2	81.8
72.5°	76.4	84.2	75.6	69.3	67.8
75°	63.9	70.1	61.6	56.9	54.5
77.5°	52.2	56.9	49.1	45.2	43.6
80°	40.5	43.6	37.4	35.1	34.3
82.5°	29.6	31.2	27.3	28.8	28.1
85°	19.5	20.3	21.0	21.8	19.5
87.5°	9.4	13.2	13.2	12.5	10.1
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	15.40	16.86	15.76	17.18	17.49	16.47	17.93	16.83	18.24	18.56
	3H	17.10	18.41	17.47	18.73	19.10	17.55	18.86	17.93	19.19	19.55
	4H	17.75	18.98	18.15	19.33	19.71	17.95	19.18	18.35	19.53	19.91
	6H	18.25	19.39	18.67	19.75	20.15	18.26	19.40	18.68	19.76	20.16
	8H	18.42	19.50	18.85	19.89	20.29	18.40	19.48	18.82	19.87	20.27
	12H	18.55	19.58	18.98	19.96	20.39	18.52	19.55	18.95	19.93	20.36
4H	2H	16.00	17.23	16.40	17.58	17.96	16.87	18.10	17.27	18.45	18.83
	3H	17.93	18.94	18.34	19.35	19.75	18.19	19.21	18.60	19.61	20.01
	4H	18.74	19.65	19.17	20.07	20.51	18.71	19.62	19.14	20.04	20.48
	6H	19.39	20.18	19.84	20.63	21.09	19.14	19.94	19.60	20.38	20.84
	8H	19.61	20.35	20.07	20.80	21.27	19.33	20.07	19.80	20.52	20.99
	12H	19.78	20.45	20.26	20.92	21.40	19.51	20.18	20.00	20.66	21.13
8H	4H	18.98	19.72	19.44	20.17	20.63	18.95	19.70	19.42	20.14	20.61
	6H	19.76	20.38	20.26	20.87	21.35	19.50	20.12	20.00	20.61	21.09
	8H	20.08	20.63	20.59	21.14	21.63	19.78	20.33	20.29	20.84	21.33
	12H	20.35	20.83	20.86	21.33	21.89	20.07	20.56	20.58	21.05	21.62
12H	4H	18.99	19.65	19.47	20.13	20.60	18.98	19.64	19.46	20.12	20.59
	6H	19.80	20.35	20.31	20.86	21.35	19.55	20.11	20.07	20.62	21.11
	8H	20.17	20.66	20.68	21.16	21.72	19.89	20.38	20.41	20.88	21.44