

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: P1059378

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1059378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-65)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDRP-S775D930-X4F0-XX-UDD-SVL-W
Description: DEFINE 3 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

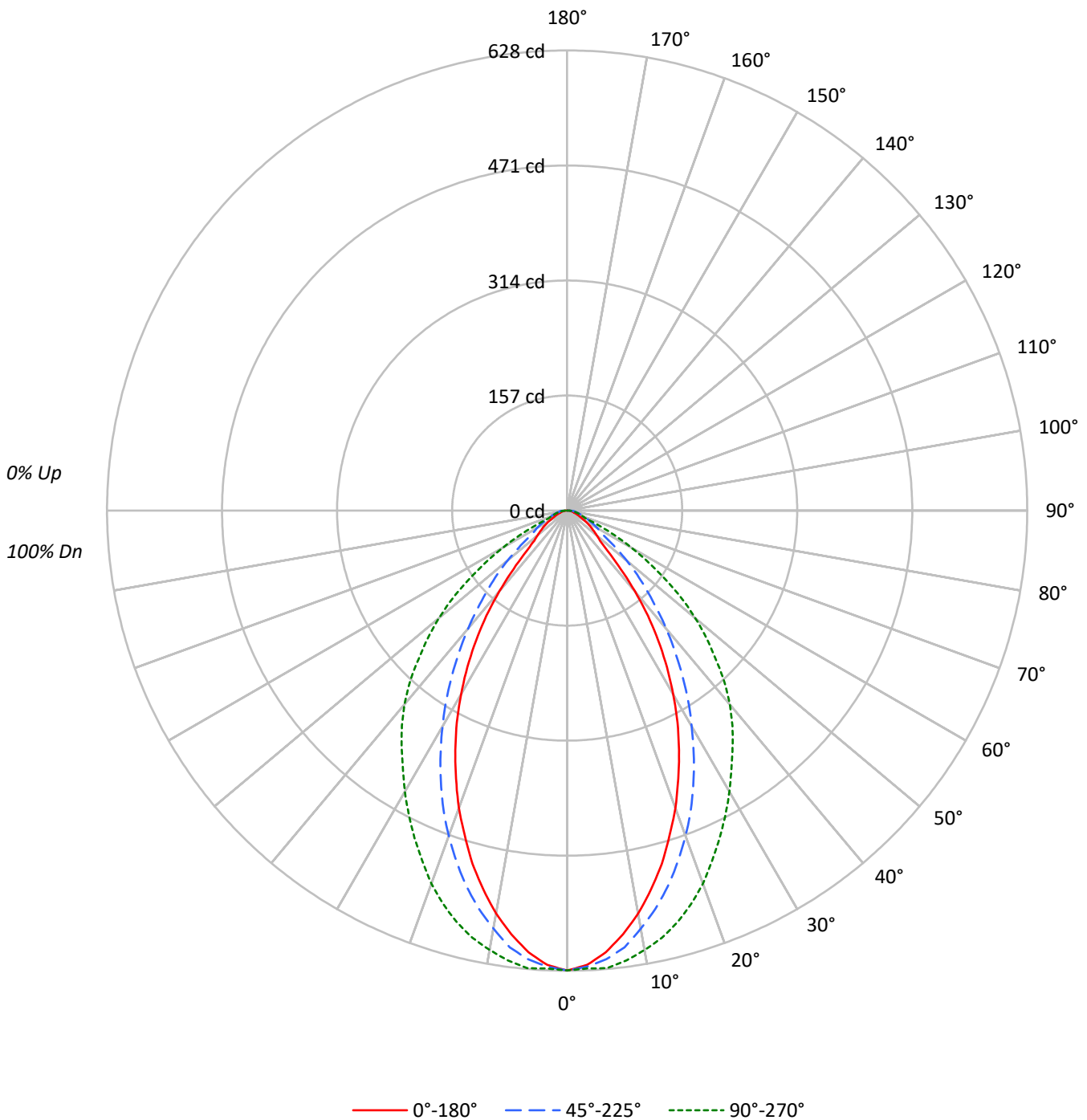
Lumens per Lamp: N/A
Luminaire Lumens: 842.6 lumens
Efficiency: N/A
Efficacy: 32.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.08 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

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	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	102	99	97	98	96	94	94	93	91	89																												
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79																												
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71																												
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	66	64																												
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58																												
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																												
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	49	48																												
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44																												
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40																												
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7370	7370	7370
5°	7131	7242	7389
10°	6657	6907	7260
15°	6066	6455	7070
20°	5397	5904	6772
25°	4677	5284	6385
30°	3923	4609	6005
35°	3108	3923	5644
40°	2200	3227	5295
45°	1295	2551	4764
50°	968	1936	4172
55°	815	1308	3351
60°	660	1118	2381
65°	520	953	1256
70°	457	831	776
75°	426	780	744
80°	419	845	737
85°	525	1266	943

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4764 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.8	6.9
10°-20°	150.1	17.8
20°-30°	191.2	22.7
30°-40°	179.8	21.3
40°-50°	129.5	15.4
50°-60°	74.8	8.9
60°-70°	34.2	4.1
70°-80°	17.1	2.0
80°-90°	8.1	1.0
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°	399.1	47.4
0°-40°	578.9	68.7
0°-60°	783.2	93.0
0°-90°	842.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	842.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	628	628	628	628	628	
5°	605	615	614	621	627	56
15°	499	517	531	561	582	139
25°	361	380	408	453	493	165
35°	217	236	274	337	394	134
45°	78	98	154	231	287	66
55°	40	41	64	122	164	36
65°	19	26	34	38	45	19
75°	9	18	17	16	16	10
85°	4	9	9	9	7	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	627.6	627.6	627.6	627.6	627.6
2.5°	620.6	628.4	623.0	623.8	625.3
5°	605.0	615.2	614.4	620.6	626.9
7.5°	583.2	594.9	601.1	610.5	619.1
10°	558.3	571.5	579.3	596.5	608.9
12.5°	529.4	546.6	556.7	579.3	597.2
15°	499.0	516.9	531.0	560.6	581.6
17.5°	464.7	484.2	502.1	537.2	562.9
20°	431.9	450.7	472.5	510.7	541.9
22.5°	396.1	416.4	441.3	481.8	516.9
25°	361.0	379.7	407.8	453.0	492.8
27.5°	325.9	344.6	374.3	424.2	467.8
30°	289.3	308.8	339.9	395.3	442.9
32.5°	253.4	272.1	307.2	367.2	417.1
35°	216.8	235.5	273.7	336.8	393.7
37.5°	180.9	200.4	240.9	311.9	370.4
40°	143.5	164.5	210.5	286.1	345.4
42.5°	108.4	131.0	180.1	259.6	318.1
45°	78.0	97.5	153.6	230.8	286.9
47.5°	60.8	71.0	129.4	201.2	258.1
50°	53.0	54.6	106.0	173.9	228.4
52.5°	46.0	47.6	83.4	148.1	197.3
55°	39.8	41.3	63.9	121.6	163.7
57.5°	33.5	35.9	53.0	96.7	131.8
60°	28.1	31.2	47.6	74.1	101.4
62.5°	22.6	28.1	40.5	54.6	72.5
65°	18.7	26.5	34.3	38.2	45.2
67.5°	15.6	24.2	28.8	27.3	26.5
70°	13.3	21.8	24.2	21.8	22.6
72.5°	10.9	20.3	20.3	18.7	18.7
75°	9.4	17.9	17.2	16.4	16.4
77.5°	7.8	15.6	14.8	14.0	13.3
80°	6.2	12.5	12.5	11.7	10.9
82.5°	5.5	10.1	10.1	10.1	8.6
85°	3.9	8.6	9.4	8.6	7.0
87.5°	3.1	7.8	7.8	7.0	4.7
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	6.91	8.23	7.28	8.55	8.86	14.27	15.59	14.64	15.91	16.22
	3H	8.30	9.47	8.68	9.80	10.17	14.50	15.67	14.88	16.00	16.37
	4H	8.86	9.95	9.26	10.30	10.68	14.62	15.71	15.02	16.06	16.44
	6H	9.29	10.29	9.70	10.66	11.06	14.73	15.74	15.15	16.11	16.50
	8H	9.47	10.42	9.90	10.81	11.21	14.79	15.74	15.22	16.13	16.53
	12H	9.62	10.53	10.06	10.91	11.34	14.85	15.75	15.28	16.14	16.57
4H	2H	8.01	9.10	8.42	9.45	9.84	14.23	15.32	14.64	15.67	16.06
	3H	9.68	10.57	10.09	10.97	11.38	14.59	15.49	15.01	15.89	16.29
	4H	10.48	11.28	10.92	11.70	12.15	14.79	15.59	15.22	16.01	16.45
	6H	11.12	11.81	11.58	12.26	12.72	15.02	15.71	15.48	16.15	16.62
	8H	11.35	12.00	11.82	12.45	12.92	15.12	15.77	15.59	16.21	16.68
	12H	11.57	12.14	12.06	12.62	13.10	15.25	15.82	15.74	16.30	16.78
8H	4H	10.93	11.57	11.40	12.02	12.49	14.83	15.47	15.30	15.92	16.39
	6H	11.84	12.37	12.34	12.86	13.35	15.16	15.69	15.66	16.18	16.66
	8H	12.26	12.73	12.78	13.25	13.74	15.34	15.82	15.87	16.34	16.83
	12H	12.67	13.10	13.19	13.59	14.16	15.59	16.02	16.11	16.51	17.08
12H	4H	10.98	11.56	11.47	12.04	12.51	14.82	15.39	15.30	15.87	16.35
	6H	11.97	12.45	12.49	12.96	13.46	15.17	15.65	15.69	16.16	16.66
	8H	12.51	12.93	13.02	13.43	14.00	15.43	15.85	15.94	16.34	16.92