

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: P1059372

Luminaire Tested: S123RDRP-S775D927-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1059372
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-S775D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

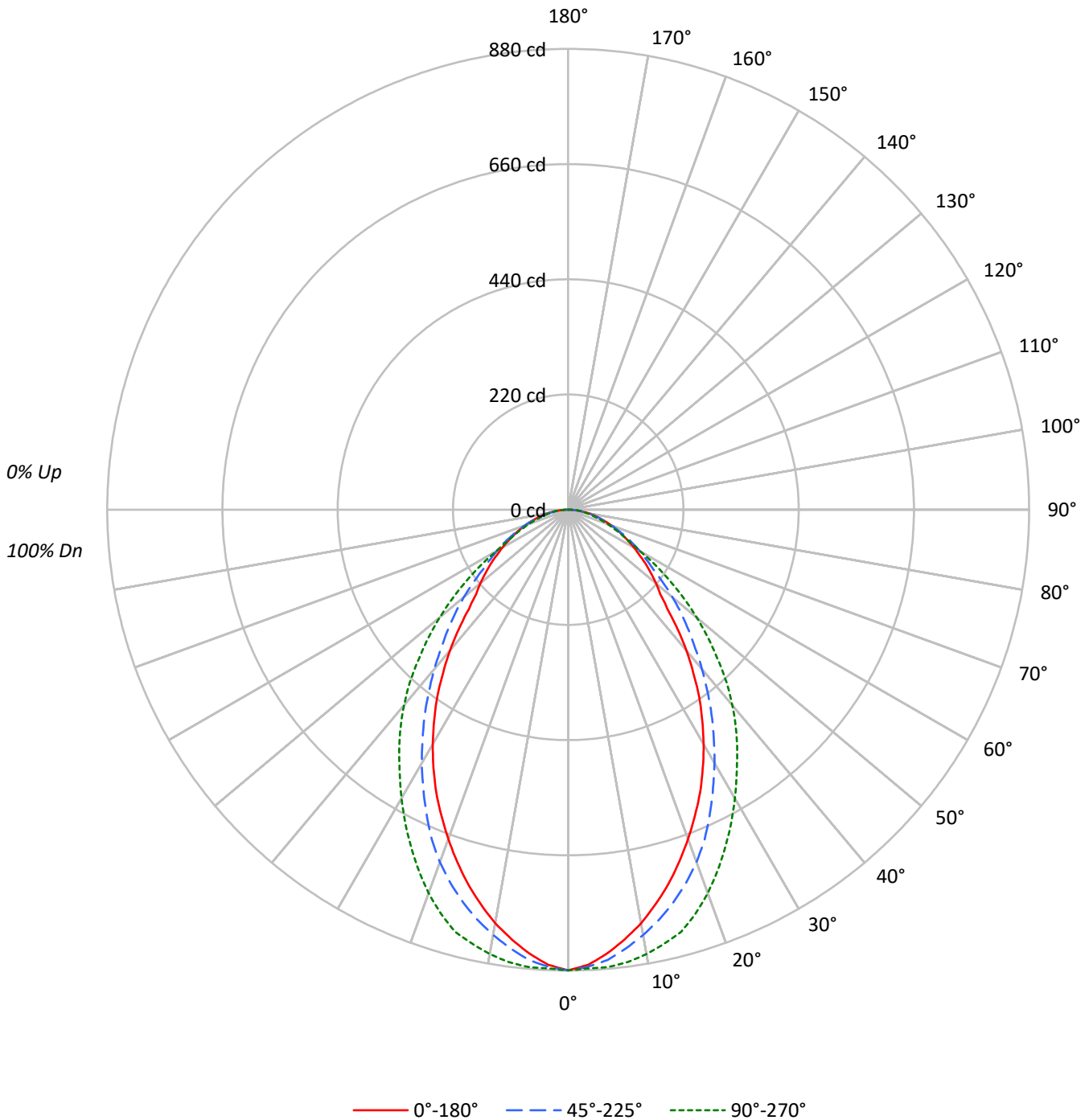
Lumens per Lamp: N/A
Luminaire Lumens: 1545.9 lumens
Efficiency: N/A
Efficacy: 59.9 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.1 / 1.09
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
Input Voltage (V): 120
Input Current (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	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	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°	10330	10330	10330
5°	10031	10174	10334
10°	9560	9831	10273
15°	8992	9434	10142
20°	8364	8950	9736
25°	7719	8299	9202
30°	7011	7575	8633
35°	6240	6838	8063
40°	5385	6093	7474
45°	4450	5394	6701
50°	3997	4757	5851
55°	3703	4062	4852
60°	3415	3699	3715
65°	3176	3345	3115
70°	2990	3042	2729
75°	2817	2713	2405
80°	2664	2455	2252
85°	2546	2748	2546

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6701 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	5.3
10°-20°	219.5	14.2
20°-30°	297.0	19.2
30°-40°	305.2	19.7
40°-50°	256.3	16.6
50°-60°	183.8	11.9
60°-70°	117.0	7.6
70°-80°	64.3	4.2
80°-90°	21.4	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°	598.0	38.7
0°-40°	903.1	58.4
0°-60°	1343.2	86.9
0°-90°	1545.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1545.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	880	880	880	880	880	
5°	851	866	863	869	877	80
15°	740	760	776	809	834	207
25°	596	618	640	675	710	273
35°	435	459	477	519	562	271
45°	268	292	325	372	404	212
55°	181	185	198	225	237	162
65°	114	121	120	114	112	114
75°	62	68	60	55	53	66
85°	19	20	20	21	19	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	879.7	879.7	879.7	879.7	879.7
2.5°	869.9	882.0	873.7	874.4	876.7
5°	851.0	866.1	863.1	869.1	876.7
7.5°	827.5	844.2	844.9	859.3	871.4
10°	801.8	819.2	824.5	846.4	861.6
12.5°	771.5	790.4	801.8	829.0	848.7
15°	739.7	760.1	776.0	809.3	834.3
17.5°	704.9	726.8	747.3	782.8	808.6
20°	669.3	692.7	716.2	749.5	779.1
22.5°	632.2	656.4	680.6	713.2	745.7
25°	595.8	618.5	640.5	675.3	710.2
27.5°	556.5	579.9	598.9	637.5	673.8
30°	517.1	540.6	558.7	598.9	636.7
32.5°	476.2	500.4	517.1	558.7	598.1
35°	435.3	458.8	477.0	519.4	562.5
37.5°	392.2	417.9	436.1	483.8	526.2
40°	351.3	375.5	397.5	447.4	487.6
42.5°	308.9	333.9	358.9	410.3	447.4
45°	268.0	291.5	324.8	371.7	403.5
47.5°	238.5	253.6	292.2	331.6	361.9
50°	218.8	224.9	260.4	295.3	320.3
52.5°	199.1	203.7	227.9	259.7	278.6
55°	180.9	184.7	198.4	224.9	237.0
57.5°	161.3	165.0	176.4	191.5	198.4
60°	145.4	148.4	157.5	159.7	158.2
62.5°	129.5	134.0	138.5	133.2	131.0
65°	114.3	121.1	120.4	113.6	112.1
67.5°	100.7	107.5	103.7	96.9	94.6
70°	87.1	93.9	88.6	81.8	79.5
72.5°	74.2	81.8	73.4	67.4	65.9
75°	62.1	68.1	59.8	55.3	53.0
77.5°	50.7	55.3	47.7	43.9	42.4
80°	39.4	42.4	36.3	34.1	33.3
82.5°	28.8	30.3	26.5	28.0	27.3
85°	18.9	19.7	20.4	21.2	18.9
87.5°	9.1	12.9	12.9	12.1	9.8
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	15.30	16.76	15.66	17.07	17.39	16.37	17.83	16.73	18.14	18.46
	3H	16.99	18.31	17.37	18.63	19.00	17.45	18.76	17.83	19.09	19.45
	4H	17.65	18.88	18.05	19.23	19.61	17.85	19.08	18.25	19.43	19.81
	6H	18.15	19.29	18.57	19.65	20.05	18.16	19.30	18.58	19.66	20.06
	8H	18.32	19.40	18.75	19.79	20.20	18.30	19.38	18.73	19.77	20.17
	12H	18.45	19.48	18.88	19.86	20.29	18.42	19.45	18.85	19.83	20.26
4H	2H	15.90	17.13	16.30	17.48	17.86	16.77	18.00	17.17	18.35	18.73
	3H	17.83	18.84	18.24	19.25	19.65	18.09	19.11	18.50	19.51	19.91
	4H	18.64	19.55	19.07	19.97	20.41	18.61	19.52	19.04	19.94	20.38
	6H	19.29	20.08	19.74	20.53	20.99	19.04	19.84	19.50	20.28	20.74
	8H	19.51	20.25	19.97	20.70	21.17	19.23	19.98	19.70	20.42	20.89
	12H	19.68	20.35	20.16	20.82	21.30	19.41	20.08	19.90	20.56	21.03
8H	4H	18.88	19.62	19.34	20.06	20.53	18.85	19.60	19.32	20.04	20.51
	6H	19.66	20.28	20.16	20.77	21.25	19.40	20.02	19.90	20.51	20.99
	8H	19.98	20.53	20.49	21.04	21.53	19.68	20.23	20.19	20.74	21.23
	12H	20.25	20.73	20.76	21.23	21.79	19.97	20.46	20.48	20.95	21.52
12H	4H	18.89	19.55	19.37	20.03	20.50	18.88	19.54	19.36	20.02	20.50
	6H	19.70	20.25	20.21	20.76	21.25	19.45	20.01	19.97	20.52	21.01
	8H	20.07	20.56	20.58	21.06	21.62	19.79	20.28	20.31	20.78	21.34