

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: P1060515

Luminaire Tested: S124RDRP-S575D930-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060515
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-73)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-S575D930-X4F0-XX-UDD-WVL-W
Description: DEFINE 4 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

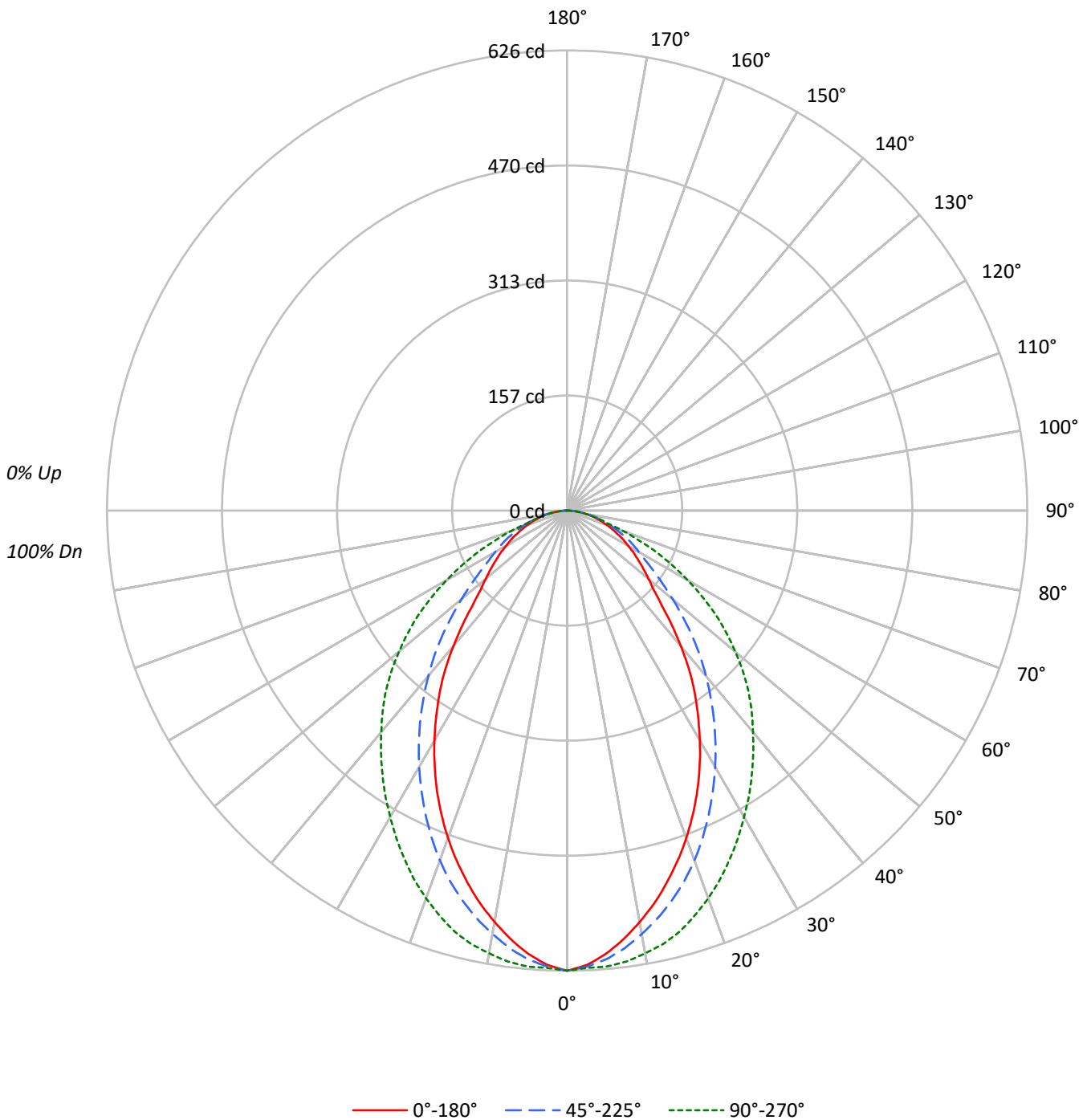
Lumens per Lamp: N/A
Luminaire Lumens: 1148.5 lumens
Efficiency: N/A
Efficacy: 58.6 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.11
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
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	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	100	97	100	97	94	96	93	91	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65
4	86	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33
10	58	45	38	33	56	45	38	33	44	37	33	43	37	32	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5390	5390	5390
5°	5233	5295	5382
10°	4969	5114	5347
15°	4671	4899	5284
20°	4345	4640	5142
25°	3984	4332	4973
30°	3591	4004	4786
35°	3179	3662	4605
40°	2702	3306	4421
45°	2213	2920	4250
50°	1937	2508	4000
55°	1779	2162	3701
60°	1650	1946	3262
65°	1547	1828	2730
70°	1450	1674	2049
75°	1364	1530	1494
80°	1265	1398	1265
85°	1146	1363	1097

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4250 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.8	5.0
10°-20°	155.6	13.6
20°-30°	212.7	18.5
30°-40°	223.6	19.5
40°-50°	194.0	16.9
50°-60°	146.4	12.7
60°-70°	94.9	8.3
70°-80°	48.7	4.2
80°-90°	14.7	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°	426.2	37.1
0°-40°	649.8	56.6
0°-60°	990.2	86.2
0°-90°	1148.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1148.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	626	626	626	626	626	
5°	605	614	613	618	623	57
15°	524	537	550	574	593	147
25°	419	434	456	491	523	192
35°	302	319	348	395	438	188
45°	182	199	240	300	349	143
55°	118	122	144	204	246	107
65°	76	78	90	109	134	76
75°	41	46	46	46	45	44
85°	12	14	14	13	11	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	625.9	625.9	625.9	625.9	625.9
2.5°	618.7	626.5	620.9	622.0	622.6
5°	605.4	613.7	612.6	617.6	622.6
7.5°	588.2	598.2	600.4	610.4	618.7
10°	568.3	579.4	584.9	601.0	611.5
12.5°	547.3	558.3	568.3	588.8	603.8
15°	524.0	536.7	549.5	574.4	592.7
17.5°	499.6	512.9	529.0	556.1	577.7
20°	474.1	487.4	506.3	535.6	561.1
22.5°	447.0	462.0	481.9	513.5	543.4
25°	419.3	434.3	455.9	490.8	523.4
27.5°	390.5	406.0	429.3	468.1	502.9
30°	361.1	377.8	402.7	443.7	481.3
32.5°	331.2	349.0	375.5	419.3	460.3
35°	302.4	319.0	348.4	394.9	438.1
37.5°	272.5	289.1	320.7	371.1	416.0
40°	240.4	258.7	294.1	346.2	393.3
42.5°	210.5	228.8	267.0	322.4	371.7
45°	181.7	198.9	239.8	299.7	349.0
47.5°	159.5	171.7	212.7	277.5	324.6
50°	144.6	150.1	187.2	253.1	298.6
52.5°	131.3	135.7	164.0	228.8	273.1
55°	118.5	121.9	144.0	204.4	246.5
57.5°	107.5	109.1	126.3	180.0	217.7
60°	95.8	98.0	113.0	155.1	189.4
62.5°	86.4	87.5	101.4	131.3	161.2
65°	75.9	77.5	89.7	108.6	134.0
67.5°	66.5	69.2	77.5	88.6	105.8
70°	57.6	61.5	66.5	72.0	81.4
72.5°	49.3	53.7	56.5	58.7	57.1
75°	41.0	46.0	46.0	46.5	44.9
77.5°	33.2	37.7	37.1	36.6	34.3
80°	25.5	29.4	28.2	27.7	25.5
82.5°	18.8	21.6	20.5	19.9	17.2
85°	11.6	14.4	13.8	13.3	11.1
87.5°	5.5	8.3	7.8	7.2	5.0
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	12.35	13.84	12.72	14.15	14.47	16.09	17.58	16.46	17.89	18.21
	3H	14.02	15.35	14.40	15.68	16.05	17.22	18.55	17.60	18.88	19.24
	4H	14.69	15.94	15.09	16.29	16.67	17.52	18.76	17.92	19.11	19.49
	6H	15.20	16.35	15.61	16.72	17.11	17.72	18.87	18.13	19.24	19.63
	8H	15.37	16.47	15.80	16.86	17.26	17.77	18.87	18.20	19.26	19.66
	12H	15.49	16.54	15.92	16.92	17.35	17.80	18.85	18.23	19.24	19.66
4H	2H	13.15	14.40	13.55	14.74	15.12	16.26	17.51	16.66	17.86	18.24
	3H	15.02	16.05	15.43	16.45	16.86	17.59	18.62	18.00	19.03	19.43
	4H	15.82	16.76	16.26	17.17	17.61	18.01	18.94	18.44	19.35	19.79
	6H	16.47	17.28	16.93	17.72	18.18	18.33	19.14	18.79	19.58	20.04
	8H	16.69	17.45	17.15	17.89	18.36	18.42	19.18	18.89	19.62	20.09
	12H	16.85	17.53	17.34	18.01	18.48	18.49	19.17	18.98	19.65	20.12
8H	4H	16.17	16.93	16.64	17.37	17.84	18.14	18.90	18.60	19.34	19.81
	6H	16.96	17.59	17.46	18.08	18.56	18.56	19.18	19.06	19.68	20.15
	8H	17.28	17.84	17.80	18.35	18.84	18.72	19.28	19.23	19.79	20.28
	12H	17.54	18.04	18.05	18.53	19.10	18.85	19.35	19.36	19.84	20.41
12H	4H	16.20	16.88	16.68	17.36	17.83	18.14	18.82	18.63	19.30	19.77
	6H	17.02	17.59	17.54	18.10	18.58	18.58	19.14	19.09	19.65	20.14
	8H	17.41	17.91	17.92	18.40	18.96	18.79	19.28	19.30	19.78	20.34