

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: P1060513

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060513
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-37)
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-B
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

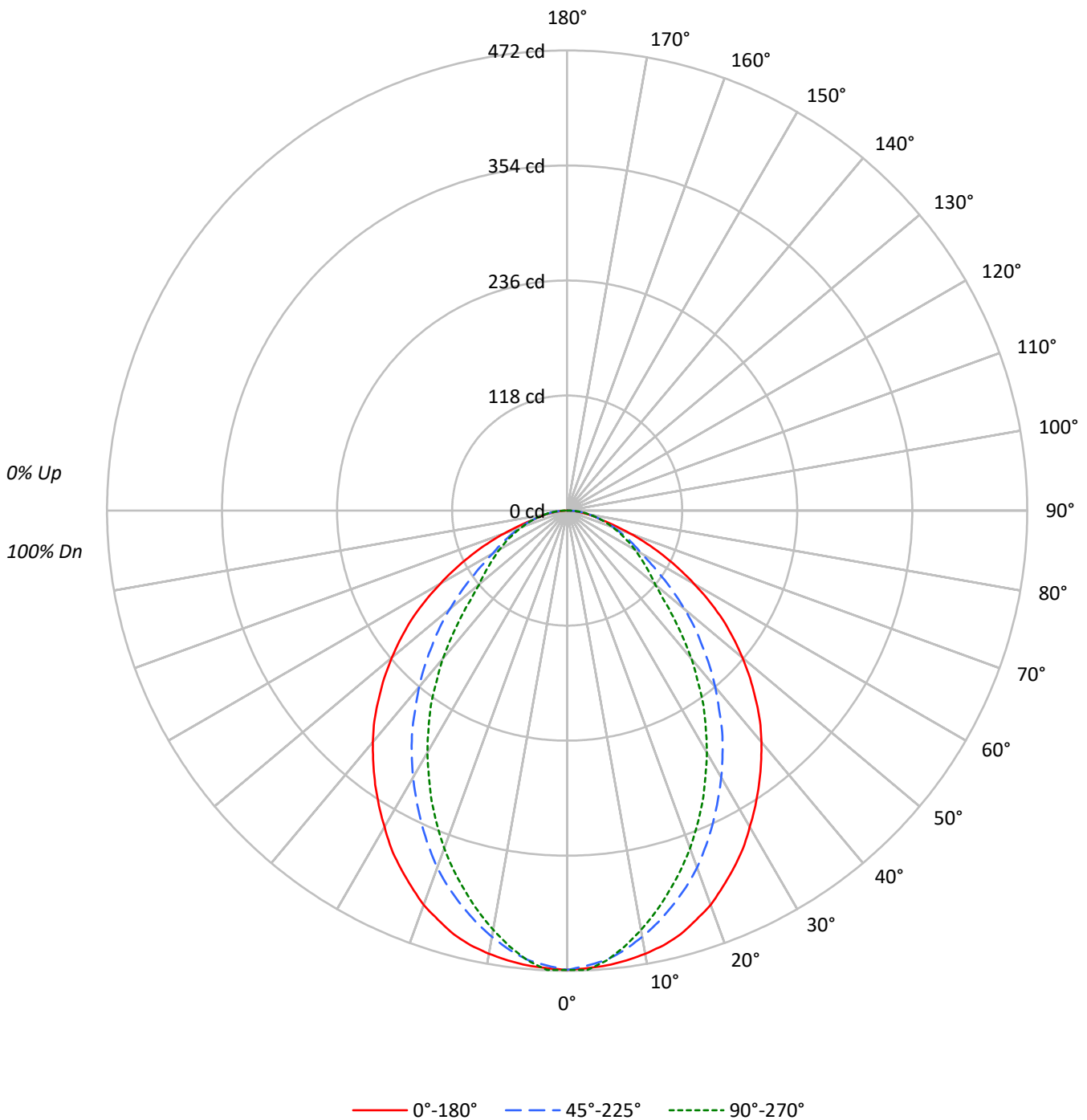
Lumens per Lamp: N/A
Luminaire Lumens: 908.3 lumens
Efficiency: N/A
Efficacy: 46.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.96 / 1.12
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	82	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4057	4057	4057
5°	4048	4000	4005
10°	4036	3881	3818
15°	4012	3735	3603
20°	3946	3571	3378
25°	3844	3361	3124
30°	3726	3143	2851
35°	3608	2915	2561
40°	3485	2657	2234
45°	3329	2386	1867
50°	3144	2106	1579
55°	2925	1787	1462
60°	2594	1516	1383
65°	2211	1398	1308
70°	1727	1297	1241
75°	1178	1198	1198
80°	1017	1126	1150
85°	879	1097	1205

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3329 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.8	4.8
10°-20°	119.0	13.1
20°-30°	165.2	18.2
30°-40°	177.1	19.5
40°-50°	156.9	17.3
50°-60°	118.2	13.0
60°-70°	76.6	8.4
70°-80°	39.3	4.3
80°-90°	12.1	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°	328.1	36.1
0°-40°	505.2	55.6
0°-60°	780.4	85.9
0°-90°	908.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	908.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	471	471	471	471	471	
5°	468	469	463	463	463	44
15°	450	440	419	408	404	127
25°	405	383	354	335	329	186
35°	343	312	277	252	244	215
45°	273	238	196	166	153	211
55°	195	162	119	100	97	173
65°	108	88	69	65	64	108
75°	35	37	36	36	36	42
85°	9	9	11	12	12	10
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	471.1	471.1	471.1	471.1	471.1
2.5°	469.9	471.6	467.2	470.5	471.6
5°	468.3	468.8	462.7	463.3	463.3
7.5°	465.5	464.4	454.4	451.7	451.1
10°	461.6	458.3	443.9	438.4	436.7
12.5°	456.7	450.6	432.3	424.6	421.2
15°	450.0	440.1	419.0	408.5	404.1
17.5°	440.1	427.3	405.2	391.9	386.9
20°	430.6	413.5	389.7	373.1	368.6
22.5°	417.4	399.1	372.0	354.3	348.7
25°	404.6	383.0	353.7	334.9	328.8
27.5°	390.8	366.4	334.9	315.0	307.2
30°	374.7	348.7	316.1	295.0	286.7
32.5°	359.2	331.6	296.7	273.4	264.6
35°	343.2	312.2	277.3	252.4	243.6
37.5°	326.6	293.9	255.7	231.4	219.8
40°	310.0	275.7	236.4	208.7	198.7
42.5°	292.8	256.8	216.4	187.6	174.9
45°	273.4	238.0	195.9	165.5	153.3
47.5°	254.6	219.8	177.1	143.9	132.8
50°	234.7	200.4	157.2	125.1	117.9
52.5°	214.8	180.4	137.8	110.7	107.4
55°	194.8	162.2	119.0	100.2	97.4
57.5°	172.7	143.4	102.4	90.8	88.6
60°	150.6	122.9	88.0	81.9	80.3
62.5°	129.0	105.2	78.0	73.1	72.0
65°	108.5	87.5	68.6	64.8	64.2
67.5°	88.6	72.0	59.8	57.6	56.5
70°	68.6	57.6	51.5	50.4	49.3
72.5°	50.9	46.5	43.7	43.2	42.6
75°	35.4	37.1	36.0	36.0	36.0
77.5°	28.2	28.8	29.3	29.9	29.3
80°	20.5	22.1	22.7	23.8	23.2
82.5°	14.4	15.5	17.2	17.7	18.3
85°	8.9	9.4	11.1	12.2	12.2
87.5°	3.9	4.4	5.5	6.6	7.2
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	15.31	16.80	15.67	17.12	17.43	11.87	13.37	12.24	13.68	14.00
	3H	16.51	17.85	16.89	18.18	18.54	13.57	14.91	13.94	15.24	15.60
	4H	16.82	18.08	17.22	18.43	18.80	14.24	15.50	14.64	15.85	16.23
	6H	17.02	18.18	17.43	18.55	18.94	14.79	15.95	15.20	16.32	16.71
	8H	17.08	18.18	17.50	18.57	18.98	15.01	16.12	15.44	16.51	16.91
	12H	17.11	18.17	17.54	18.55	18.98	15.18	16.24	15.61	16.62	17.05
4H	2H	15.45	16.71	15.85	17.06	17.43	12.53	13.79	12.93	14.14	14.52
	3H	16.85	17.89	17.26	18.29	18.70	14.44	15.49	14.85	15.89	16.29
	4H	17.28	18.22	17.71	18.63	19.07	15.24	16.18	15.68	16.60	17.04
	6H	17.60	18.42	18.06	18.86	19.32	15.93	16.75	16.39	17.19	17.65
	8H	17.70	18.46	18.16	18.91	19.37	16.20	16.97	16.67	17.41	17.88
	12H	17.77	18.45	18.25	18.93	19.40	16.43	17.12	16.92	17.59	18.07
8H	4H	17.40	18.17	17.87	18.61	19.08	15.56	16.32	16.02	16.77	17.24
	6H	17.82	18.45	18.32	18.95	19.42	16.39	17.02	16.88	17.51	17.99
	8H	17.98	18.55	18.49	19.06	19.55	16.75	17.32	17.27	17.83	18.32
	12H	18.11	18.61	18.62	19.10	19.67	17.09	17.59	17.60	18.08	18.65
12H	4H	17.41	18.09	17.89	18.57	19.04	15.59	16.27	16.07	16.75	17.22
	6H	17.85	18.42	18.36	18.93	19.41	16.45	17.01	16.96	17.52	18.01
	8H	18.06	18.56	18.57	19.05	19.62	16.88	17.38	17.39	17.87	18.44