

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: P1060347

Luminaire Tested: S124RDRP-S1195D930-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060347
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-75)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-S1195D930-X4F0-XX-UDD-BVL-W
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

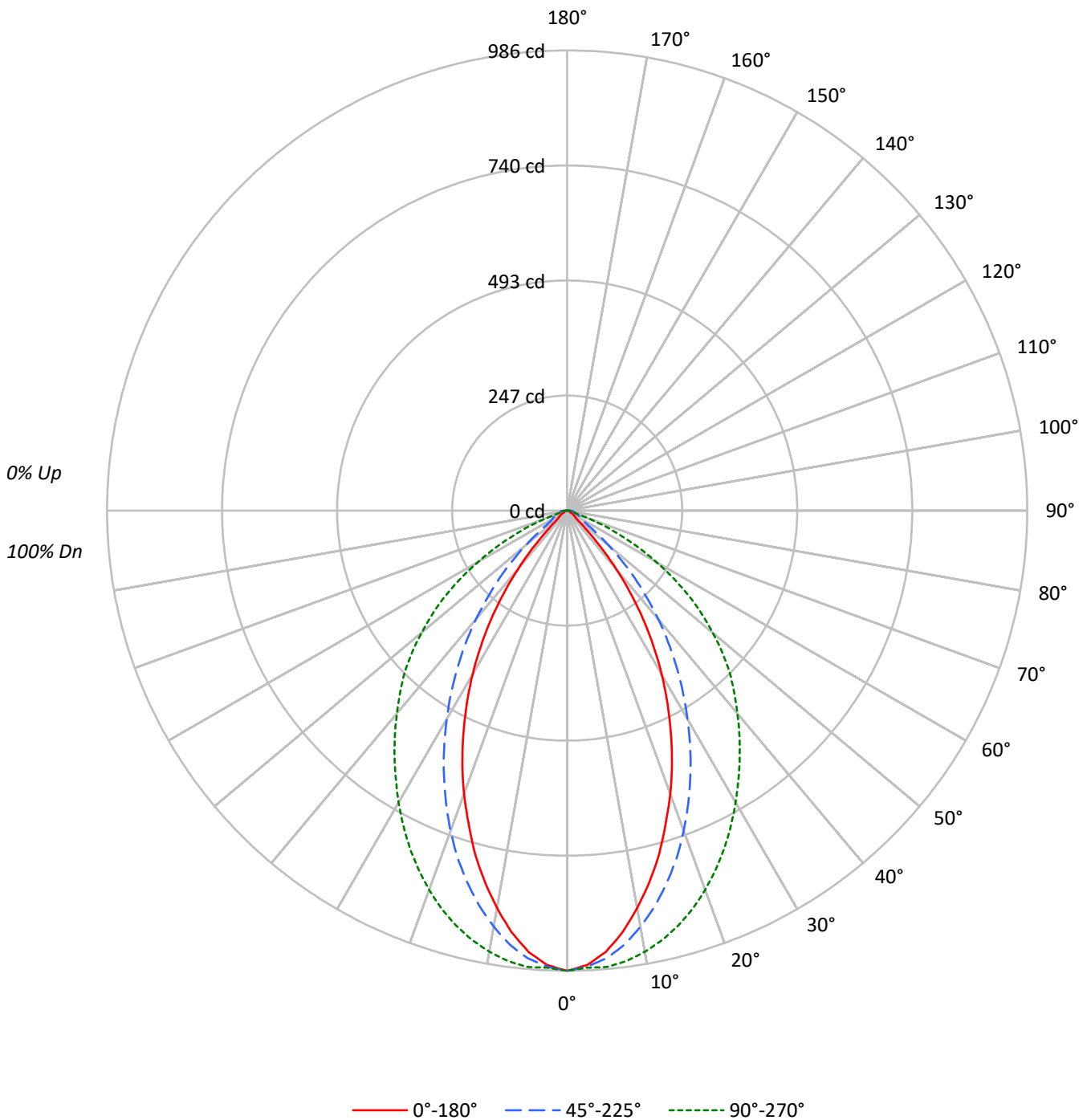
Lumens per Lamp: N/A
Luminaire Lumens: 1242.9 lumens
Efficiency: N/A
Efficacy: 29.7 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.11 / 0.96
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72					72			
4	91	82	75	70	89	81	75	70	79	73	69	76	72	68	74	70	67	65					65			
5	86	75	68	63	84	74	68	63	72	67	62	71	66	62	69	65	61	59					59			
6	80	70	62	57	79	69	62	57	67	61	56	66	60	56	64	59	56	54					54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49					49			
8	71	60	53	48	70	59	52	48	58	52	48	57	51	47	56	51	47	45					45			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42					42			
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8492	8492	8492
5°	8205	8325	8485
10°	7561	7915	8391
15°	6790	7357	8203
20°	5919	6693	7924
25°	4993	5939	7577
30°	4028	5134	7182
35°	2981	4295	6777
40°	1848	3422	6376
45°	733	2495	6005
50°	326	1566	5458
55°	261	817	4779
60°	179	618	3808
65°	118	613	2618
70°	116	554	1224
75°	153	539	539
80°	228	630	630
85°	454	1255	919

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6005 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	7.3
10°-20°	233.5	18.8
20°-30°	294.7	23.7
30°-40°	270.4	21.8
40°-50°	184.1	14.8
50°-60°	100.3	8.1
60°-70°	43.4	3.5
70°-80°	15.8	1.3
80°-90°	10.2	0.8
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°	618.7	49.8
0°-40°	889.1	71.5
0°-60°	1173.5	94.4
0°-90°	1242.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1242.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	986	986	986	986	986	
5°	949	962	963	974	982	88
15°	762	788	825	884	920	212
25°	526	563	625	725	798	240
35°	284	325	409	538	645	175
45°	60	101	205	364	493	56
55°	17	18	54	200	318	15
65°	6	8	30	62	128	7
75°	5	15	16	16	16	5
85°	5	10	13	13	9	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	986.2	986.2	986.2	986.2	986.2
2.5°	974.6	986.2	978.1	980.4	980.4
5°	949.2	961.9	963.1	973.5	981.6
7.5°	911.0	929.5	938.7	959.6	973.5
10°	864.7	886.7	905.2	941.1	959.6
12.5°	814.9	840.4	868.1	915.6	942.2
15°	761.6	788.3	825.3	884.3	920.2
17.5°	702.6	735.0	780.2	850.8	894.8
20°	645.9	678.3	730.4	810.3	864.7
22.5°	586.9	620.4	678.3	767.4	832.3
25°	525.5	562.6	625.1	724.6	797.5
27.5°	465.3	504.7	570.7	679.5	760.5
30°	405.1	444.5	516.3	633.2	722.3
32.5°	343.8	384.3	461.8	584.5	682.9
35°	283.6	325.3	408.6	538.2	644.7
37.5°	222.2	266.2	355.4	493.1	606.5
40°	164.4	208.4	304.4	448.0	567.2
42.5°	110.0	153.9	252.3	404.0	530.1
45°	60.2	100.7	204.9	363.5	493.1
47.5°	32.4	55.6	158.6	324.1	451.4
50°	24.3	30.1	116.9	282.4	407.4
52.5°	20.8	23.2	81.0	238.4	363.5
55°	17.4	18.5	54.4	200.3	318.3
57.5°	13.9	15.0	40.5	162.1	269.7
60°	10.4	12.7	35.9	125.0	221.1
62.5°	8.1	10.4	33.6	91.4	174.8
65°	5.8	8.1	30.1	62.5	128.5
67.5°	5.8	9.3	25.5	40.5	86.8
70°	4.6	12.7	22.0	26.6	48.6
72.5°	4.6	13.9	18.5	18.5	18.5
75°	4.6	15.0	16.2	16.2	16.2
77.5°	4.6	13.9	15.0	13.9	13.9
80°	4.6	12.7	12.7	12.7	12.7
82.5°	4.6	11.6	12.7	12.7	10.4
85°	4.6	10.4	12.7	12.7	9.3
87.5°	3.5	10.4	11.6	11.6	6.9
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	0.00	0.00	0.00	0.04	0.35	15.84	17.12	16.21	17.43	17.75
	3H	0.00	1.02	0.27	1.35	1.71	16.22	17.35	16.60	17.68	18.04
	4H	1.10	2.15	1.50	2.50	2.89	16.20	17.25	16.60	17.60	17.98
	6H	2.28	3.25	2.70	3.62	4.01	16.18	17.15	16.60	17.52	17.92
	8H	2.87	3.78	3.30	4.17	4.58	16.18	17.10	16.61	17.49	17.89
	12H	3.54	4.41	3.97	4.79	5.22	16.20	17.07	16.63	17.45	17.88
4H	2H	2.08	3.13	2.48	3.48	3.87	15.65	16.71	16.06	17.06	17.44
	3H	3.67	4.52	4.08	4.93	5.33	16.07	16.93	16.49	17.34	17.74
	4H	4.95	5.72	5.39	6.14	6.59	16.07	16.84	16.51	17.26	17.70
	6H	6.08	6.74	6.55	7.19	7.66	16.11	16.77	16.57	17.22	17.69
	8H	6.59	7.21	7.06	7.66	8.13	16.14	16.76	16.61	17.20	17.67
	12H	7.14	7.68	7.63	8.17	8.64	16.20	16.75	16.69	17.23	17.71
8H	4H	6.04	6.66	6.51	7.11	7.58	15.98	16.60	16.45	17.05	17.52
	6H	7.58	8.09	8.08	8.58	9.06	16.06	16.56	16.56	17.06	17.54
	8H	8.39	8.85	8.91	9.36	9.85	16.14	16.60	16.66	17.11	17.60
	12H	9.22	9.62	9.74	10.12	10.69	16.31	16.71	16.83	17.21	17.78
12H	4H	6.23	6.77	6.72	7.26	7.73	15.94	16.49	16.43	16.97	17.45
	6H	7.94	8.39	8.46	8.91	9.40	16.03	16.49	16.55	17.00	17.49
	8H	8.95	9.35	9.47	9.85	10.42	16.17	16.57	16.68	17.06	17.64