

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: P1060351

Luminaire Tested: S124RDRP-S1195D930-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060351
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-S1195D930-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

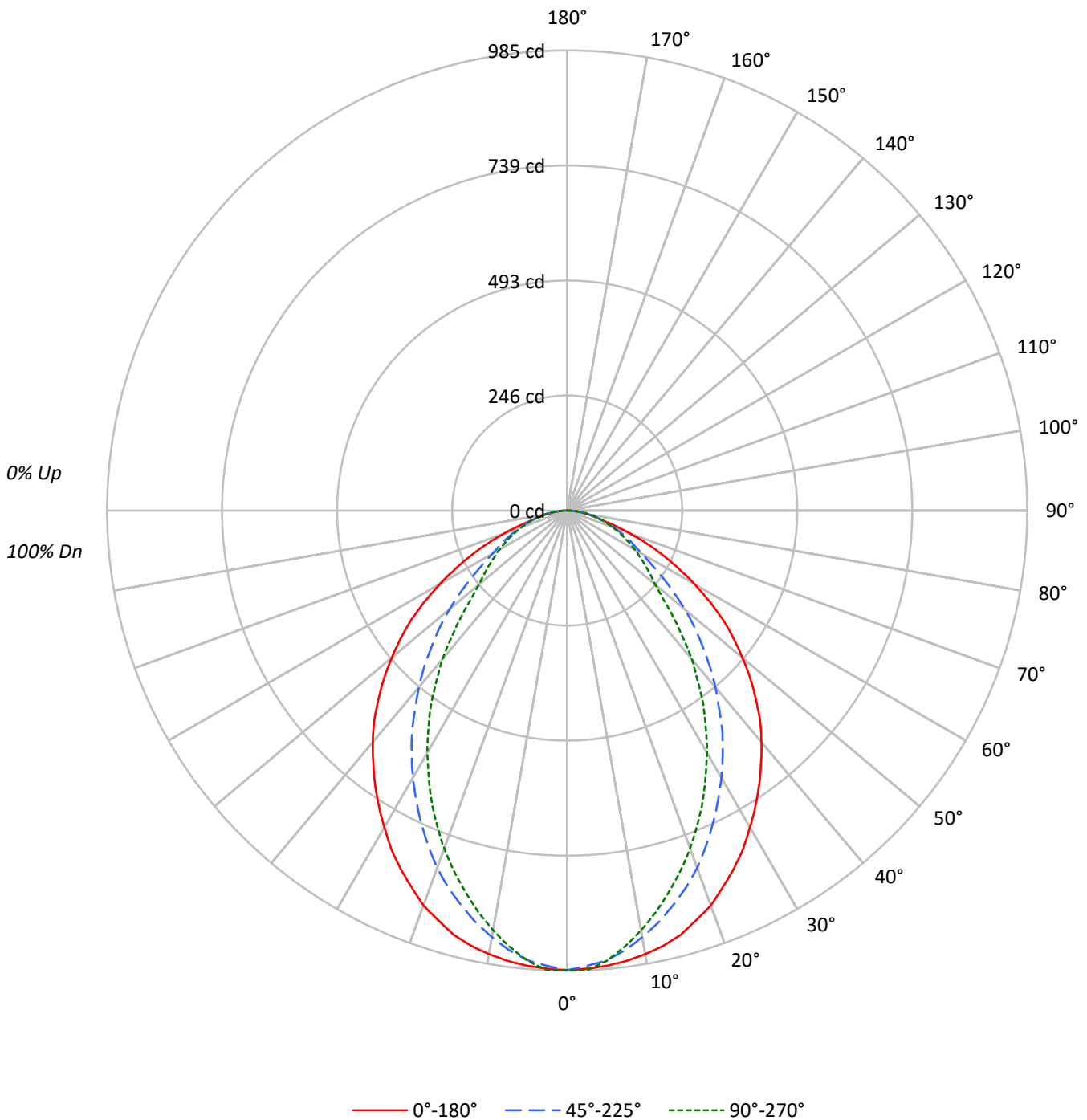
Lumens per Lamp: N/A
Luminaire Lumens: 1896.9 lumens
Efficiency: N/A
Efficacy: 45.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.96 / 1.12
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	8472	8472	8472
5°	8454	8354	8364
10°	8430	8107	7975
15°	8378	7801	7523
20°	8242	7457	7055
25°	8029	7019	6525
30°	7782	6564	5954
35°	7534	6089	5347
40°	7277	5549	4665
45°	6955	4983	3899
50°	6566	4398	3298
55°	6109	3731	3055
60°	5415	3165	2886
65°	4617	2920	2732
70°	3608	2707	2591
75°	2462	2499	2499
80°	2122	2351	2410
85°	1828	2282	2510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6955 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.5	4.8
10°-20°	248.6	13.1
20°-30°	345.1	18.2
30°-40°	369.9	19.5
40°-50°	327.7	17.3
50°-60°	247.0	13.0
60°-70°	159.9	8.4
70°-80°	82.1	4.3
80°-90°	25.2	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°	685.2	36.1
0°-40°	1055.1	55.6
0°-60°	1629.7	85.9
0°-90°	1896.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1896.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	984	984	984	984	984	
5°	978	979	966	968	968	93
15°	940	919	875	853	844	264
25°	845	800	739	699	687	389
35°	717	652	579	527	509	448
45°	571	497	409	346	320	440
55°	407	339	248	209	204	361
65°	227	183	143	135	134	225
75°	74	78	75	75	75	88
85°	18	20	23	25	25	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	983.8	983.8	983.8	983.8	983.8
2.5°	981.5	984.9	975.7	982.6	984.9
5°	978.0	979.1	966.4	967.6	967.6
7.5°	972.2	969.9	949.1	943.3	942.1
10°	964.1	957.2	927.1	915.6	912.1
12.5°	953.7	941.0	902.8	886.7	879.7
15°	939.8	919.0	875.1	853.1	843.9
17.5°	919.0	892.4	846.2	818.5	808.0
20°	899.4	863.5	813.8	779.1	769.9
22.5°	871.6	833.5	776.8	739.8	728.3
25°	845.0	800.0	738.7	699.4	686.7
27.5°	816.1	765.3	699.4	657.8	641.6
30°	782.6	728.3	660.1	616.2	598.8
32.5°	750.2	692.4	619.6	571.1	552.6
35°	716.7	652.0	579.2	527.1	508.6
37.5°	682.0	613.8	534.1	483.2	458.9
40°	647.4	575.7	493.6	435.8	415.0
42.5°	611.5	536.4	452.0	391.9	365.3
45°	571.1	497.1	409.2	345.6	320.2
47.5°	531.8	458.9	369.9	300.6	277.4
50°	490.1	418.5	328.3	261.3	246.2
52.5°	448.5	376.9	287.8	231.2	224.3
55°	406.9	338.7	248.5	209.2	203.5
57.5°	360.7	299.4	213.9	189.6	185.0
60°	314.4	256.6	183.8	171.1	167.6
62.5°	269.3	219.6	163.0	152.6	150.3
65°	226.6	182.6	143.3	135.3	134.1
67.5°	185.0	150.3	124.8	120.2	117.9
70°	143.3	120.2	107.5	105.2	102.9
72.5°	106.4	97.1	91.3	90.2	89.0
75°	74.0	77.5	75.1	75.1	75.1
77.5°	59.0	60.1	61.3	62.4	61.3
80°	42.8	46.2	47.4	49.7	48.6
82.5°	30.1	32.4	35.8	37.0	38.1
85°	18.5	19.7	23.1	25.4	25.4
87.5°	8.1	9.2	11.6	13.9	15.0
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	17.86	19.36	18.23	19.67	19.99	14.43	15.93	14.79	16.24	16.55
	3H	19.07	20.41	19.45	20.74	21.10	16.12	17.47	16.50	17.79	18.16
	4H	19.37	20.63	19.77	20.98	21.36	16.80	18.06	17.20	18.41	18.79
	6H	19.58	20.74	19.99	21.11	21.50	17.35	18.51	17.76	18.88	19.27
	8H	19.64	20.74	20.06	21.13	21.53	17.57	18.67	17.99	19.06	19.47
	12H	19.67	20.73	20.10	21.11	21.54	17.74	18.80	18.17	19.18	19.61
4H	2H	18.00	19.26	18.40	19.61	19.99	15.09	16.35	15.49	16.70	17.07
	3H	19.41	20.45	19.82	20.85	21.25	17.00	18.04	17.41	18.44	18.84
	4H	19.83	20.77	20.27	21.19	21.63	17.80	18.74	18.23	19.15	19.59
	6H	20.16	20.98	20.62	21.42	21.88	18.49	19.30	18.94	19.75	20.21
	8H	20.26	21.02	20.72	21.46	21.93	18.76	19.52	19.22	19.97	20.44
	12H	20.33	21.01	20.81	21.49	21.96	18.99	19.67	19.47	20.15	20.62
8H	4H	19.96	20.72	20.42	21.17	21.64	18.12	18.88	18.58	19.32	19.79
	6H	20.38	21.01	20.88	21.50	21.98	18.94	19.58	19.44	20.07	20.55
	8H	20.54	21.11	21.05	21.62	22.11	19.31	19.88	19.82	20.39	20.88
	12H	20.67	21.17	21.18	21.66	22.23	19.64	20.14	20.15	20.64	21.20
12H	4H	19.97	20.65	20.45	21.13	21.60	18.14	18.83	18.63	19.30	19.78
	6H	20.41	20.97	20.92	21.48	21.97	19.00	19.57	19.52	20.08	20.57
	8H	20.62	21.12	21.13	21.61	22.17	19.44	19.94	19.95	20.43	21.00