

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: P1060338

Luminaire Tested: S124RDRP-S1195D927-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060338
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-S1195D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

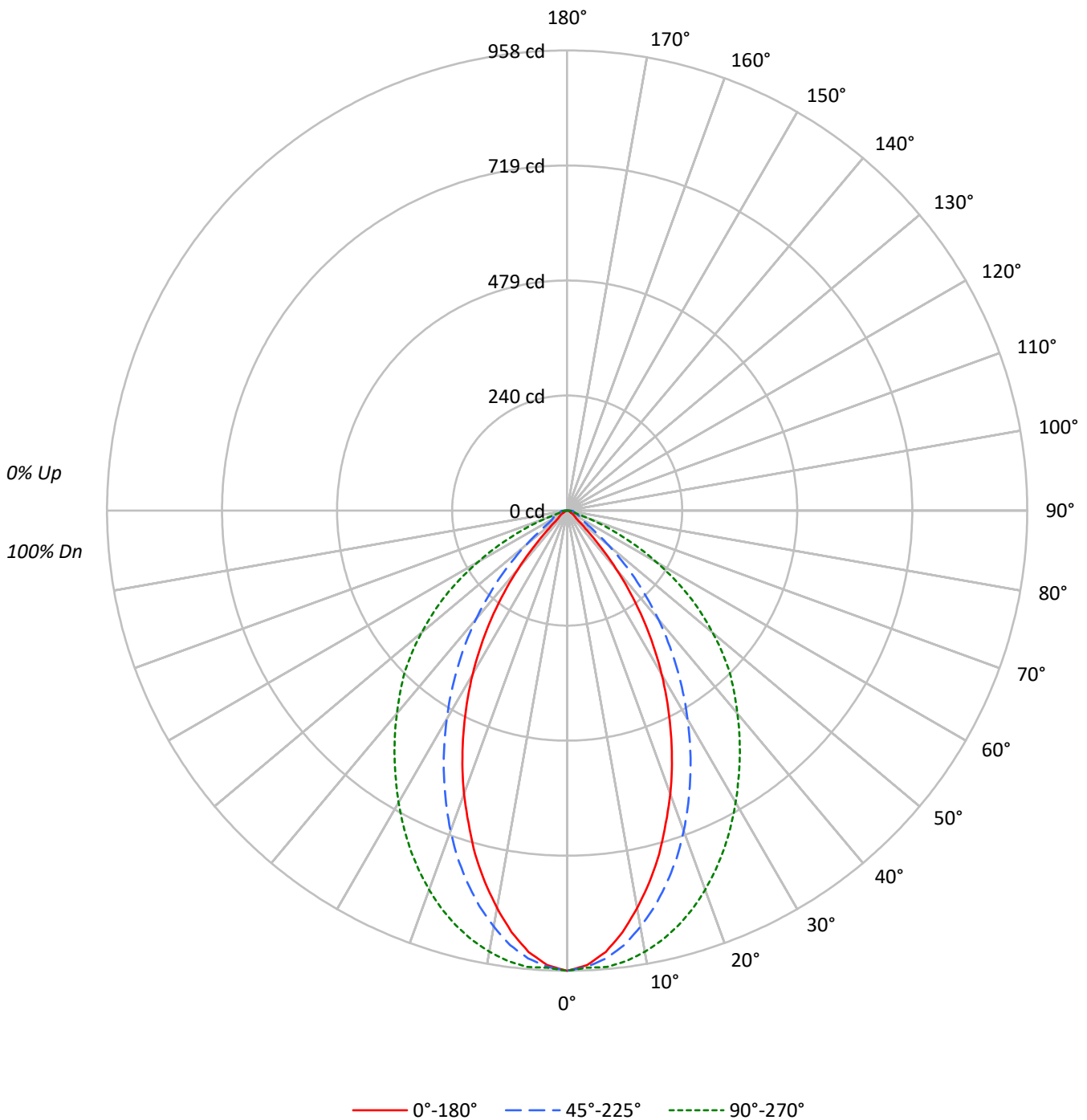
Lumens per Lamp: N/A
Luminaire Lumens: 1207.7 lumens
Efficiency: N/A
Efficacy: 28.9 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.11 / 0.97
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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°	8251	8251	8251
5°	7972	8088	8244
10°	7346	7690	8153
15°	6598	7149	7971
20°	5751	6504	7698
25°	4851	5770	7363
30°	3914	4988	6978
35°	2897	4173	6586
40°	1795	3325	6195
45°	712	2425	5834
50°	316	1522	5304
55°	254	794	4644
60°	174	601	3699
65°	114	595	2543
70°	113	539	1188
75°	150	522	522
80°	223	615	615
85°	445	1225	889

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5834 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.9	7.3
10°-20°	226.9	18.8
20°-30°	286.4	23.7
30°-40°	262.7	21.8
40°-50°	178.9	14.8
50°-60°	97.5	8.1
60°-70°	42.2	3.5
70°-80°	15.4	1.3
80°-90°	9.9	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°	601.1	49.8
0°-40°	863.8	71.5
0°-60°	1140.2	94.4
0°-90°	1207.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1207.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	958	958	958	958	958	
5°	922	935	936	946	954	85
15°	740	766	802	859	894	206
25°	511	547	607	704	775	233
35°	276	316	397	523	626	170
45°	58	98	199	353	479	54
55°	17	18	53	195	309	15
65°	6	8	29	61	125	7
75°	4	15	16	16	16	5
85°	4	10	12	12	9	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	958.2	958.2	958.2	958.2	958.2
2.5°	947.0	958.2	950.4	952.6	952.6
5°	922.3	934.6	935.7	945.9	953.7
7.5°	885.1	903.1	912.1	932.4	945.9
10°	840.1	861.5	879.5	914.4	932.4
12.5°	791.8	816.5	843.5	889.6	915.5
15°	740.1	765.9	801.9	859.3	894.1
17.5°	682.7	714.2	758.0	826.7	869.4
20°	627.6	659.1	709.7	787.3	840.1
22.5°	570.2	602.8	659.1	745.7	808.7
25°	510.6	546.6	607.3	704.1	774.9
27.5°	452.1	490.4	554.5	660.2	738.9
30°	393.6	431.9	501.6	615.2	701.8
32.5°	334.0	373.4	448.8	568.0	663.6
35°	275.6	316.0	397.0	523.0	626.5
37.5°	215.9	258.7	345.3	479.1	589.3
40°	159.7	202.4	295.8	435.3	551.1
42.5°	106.8	149.6	245.2	392.5	515.1
45°	58.5	97.8	199.1	353.2	479.1
47.5°	31.5	54.0	154.1	314.9	438.6
50°	23.6	29.2	113.6	274.4	395.9
52.5°	20.2	22.5	78.7	231.7	353.2
55°	16.9	18.0	52.9	194.6	309.3
57.5°	13.5	14.6	39.4	157.5	262.1
60°	10.1	12.4	34.9	121.5	214.8
62.5°	7.9	10.1	32.6	88.9	169.8
65°	5.6	7.9	29.2	60.7	124.8
67.5°	5.6	9.0	24.7	39.4	84.4
70°	4.5	12.4	21.4	25.9	47.2
72.5°	4.5	13.5	18.0	18.0	18.0
75°	4.5	14.6	15.7	15.7	15.7
77.5°	4.5	13.5	14.6	13.5	13.5
80°	4.5	12.4	12.4	12.4	12.4
82.5°	4.5	11.2	12.4	12.4	10.1
85°	4.5	10.1	12.4	12.4	9.0
87.5°	3.4	10.1	11.2	11.2	6.7
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	0.00	0.26	15.74	17.02	16.11	17.33	17.65
	3H	0.00	0.92	0.17	1.25	1.62	16.12	17.25	16.50	17.58	17.95
	4H	1.01	2.06	1.42	2.42	2.80	16.10	17.15	16.50	17.50	17.88
	6H	2.20	3.16	2.61	3.53	3.93	16.08	17.05	16.50	17.42	17.82
	8H	2.79	3.70	3.22	4.09	4.50	16.09	17.00	16.52	17.39	17.80
	12H	3.46	4.33	3.89	4.71	5.14	16.10	16.97	16.53	17.35	17.79
4H	2H	1.98	3.03	2.38	3.38	3.76	15.55	16.61	15.96	16.96	17.34
	3H	3.57	4.43	3.98	4.83	5.23	15.97	16.83	16.39	17.24	17.64
	4H	4.86	5.63	5.29	6.05	6.49	15.97	16.74	16.41	17.16	17.60
	6H	5.99	6.65	6.46	7.10	7.57	16.01	16.67	16.48	17.12	17.59
	8H	6.50	7.12	6.97	7.56	8.04	16.04	16.66	16.51	17.10	17.58
	12H	7.05	7.59	7.54	8.08	8.55	16.10	16.65	16.59	17.13	17.61
8H	4H	5.94	6.56	6.41	7.01	7.48	15.88	16.50	16.35	16.95	17.42
	6H	7.49	8.00	7.99	8.49	8.98	15.96	16.47	16.46	16.96	17.44
	8H	8.30	8.75	8.82	9.27	9.76	16.04	16.50	16.57	17.01	17.51
	12H	9.13	9.53	9.64	10.02	10.60	16.21	16.62	16.73	17.11	17.68
12H	4H	6.13	6.68	6.62	7.16	7.64	15.84	16.39	16.33	16.87	17.35
	6H	7.85	8.30	8.37	8.82	9.31	15.93	16.39	16.46	16.90	17.40
	8H	8.86	9.26	9.37	9.75	10.33	16.07	16.47	16.59	16.97	17.54