

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: P1060359

Luminaire Tested: S124RDRP-S1195D935-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060359
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-74)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-S1195D935-X4F0-XX-UDD-SVL-W
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

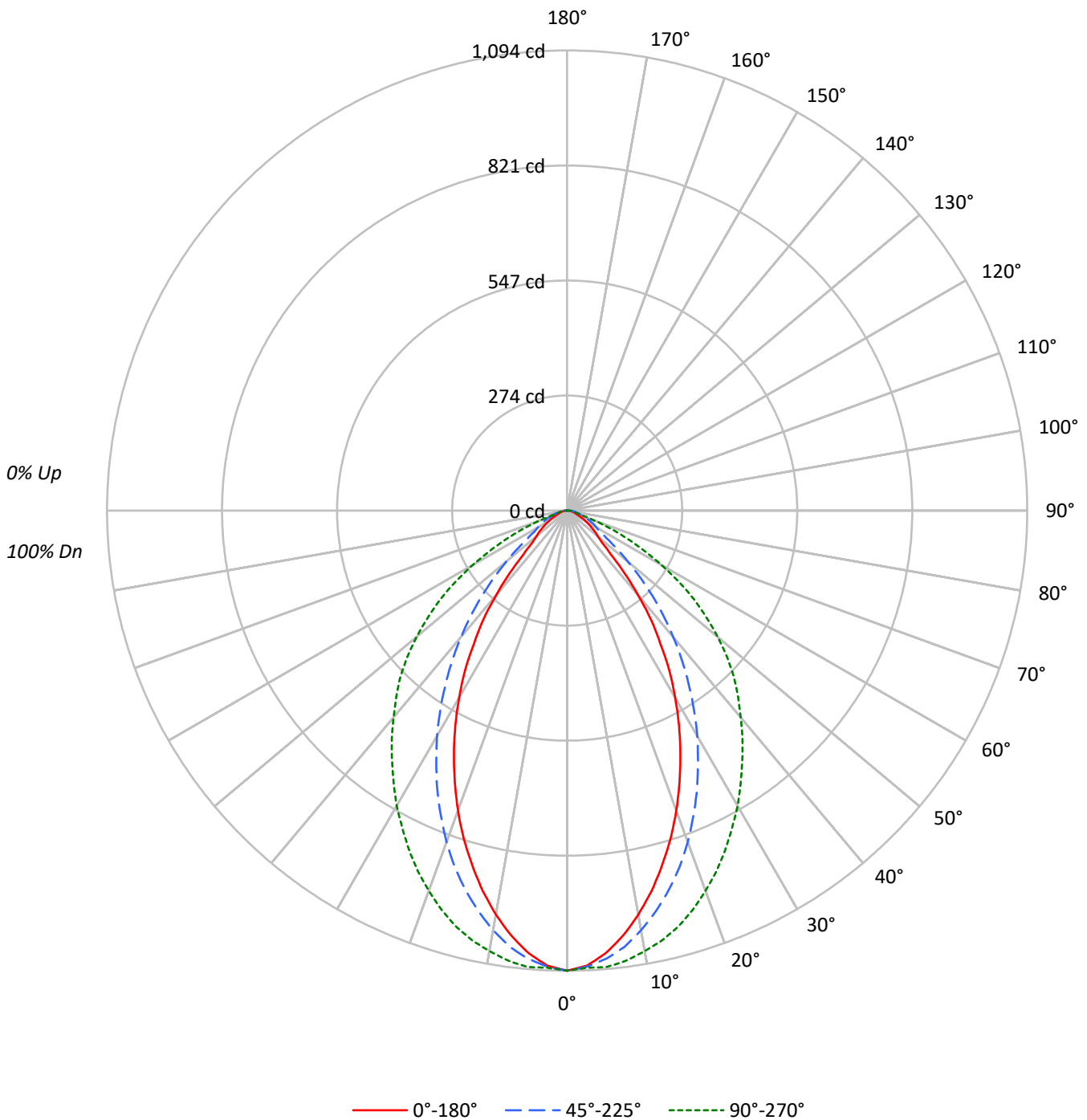
Lumens per Lamp: N/A
Luminaire Lumens: 1548.1 lumens
Efficiency: N/A
Efficacy: 37.0 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63
5	84	73	66	60	82	72	65	60	70	64	60	69	63	59	67	62	58	57
6	79	67	60	54	77	67	59	54	65	59	54	63	58	53	62	57	53	51
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	53	48	44	43
9	65	54	46	42	64	53	46	41	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9419	9419	9419
5°	9127	9244	9412
10°	8527	8859	9297
15°	7779	8324	9119
20°	6954	7683	8814
25°	6049	6944	8453
30°	5104	6149	8057
35°	4060	5293	7631
40°	2954	4410	7212
45°	1787	3483	6832
50°	1277	2521	6254
55°	1082	1707	5523
60°	884	1390	4462
65°	697	1245	3213
70°	584	1047	1692
75°	529	975	855
80°	545	972	848
85°	721	1452	968

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6832 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.7	6.5
10°-20°	263.9	17.0
20°-30°	342.2	22.1
30°-40°	329.4	21.3
40°-50°	245.1	15.8
50°-60°	150.7	9.7
60°-70°	74.0	4.8
70°-80°	28.9	1.9
80°-90°	13.2	0.9
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°	706.8	45.7
0°-40°	1036.2	66.9
0°-60°	1432.0	92.5
0°-90°	1548.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1548.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1094	1094	1094	1094	1094	
5°	1056	1072	1069	1079	1089	98
15°	873	901	934	990	1023	244
25°	637	671	731	822	890	291
35°	386	423	504	629	726	241
45°	147	182	286	441	561	122
55°	72	74	114	259	368	65
65°	34	37	61	98	158	35
75°	16	28	29	27	26	17
85°	7	13	15	15	10	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1093.8	1093.8	1093.8	1093.8	1093.8
2.5°	1082.8	1095.0	1085.2	1086.5	1087.7
5°	1055.9	1071.8	1069.4	1079.1	1088.9
7.5°	1019.2	1037.6	1046.1	1065.7	1079.1
10°	975.2	996.0	1013.1	1044.9	1063.2
12.5°	926.4	950.8	975.2	1018.0	1046.1
15°	872.6	900.7	933.7	989.9	1022.9
17.5°	817.6	845.7	888.5	953.3	994.8
20°	758.9	789.5	838.4	910.5	961.8
22.5°	697.8	730.8	784.6	866.5	927.6
25°	636.7	670.9	730.8	822.5	889.7
27.5°	575.6	608.6	673.4	776.0	849.4
30°	513.3	547.5	618.4	725.9	810.3
32.5°	453.4	485.2	561.0	678.3	767.5
35°	386.2	422.9	503.5	629.4	725.9
37.5°	328.7	361.7	448.5	580.5	684.4
40°	262.8	299.4	392.3	532.8	641.6
42.5°	201.6	238.3	338.5	485.2	601.3
45°	146.7	182.1	286.0	441.2	561.0
47.5°	111.2	132.0	234.6	398.4	515.7
50°	95.3	101.4	188.2	352.0	466.8
52.5°	84.3	86.8	146.7	305.5	418.0
55°	72.1	74.5	113.7	259.1	367.9
57.5°	61.1	62.3	91.7	215.1	314.1
60°	51.3	52.6	80.7	172.3	259.1
62.5°	42.8	44.0	72.1	133.2	206.5
65°	34.2	36.7	61.1	97.8	157.7
67.5°	28.1	33.0	51.3	68.4	110.0
70°	23.2	31.8	41.6	47.7	67.2
72.5°	19.6	29.3	35.4	34.2	33.0
75°	15.9	28.1	29.3	26.9	25.7
77.5°	13.4	24.4	24.4	22.0	20.8
80°	11.0	19.6	19.6	19.6	17.1
82.5°	9.8	15.9	17.1	17.1	13.4
85°	7.3	13.4	14.7	14.7	9.8
87.5°	4.9	12.2	13.4	12.2	7.3
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	7.57	8.92	7.94	9.23	9.54	16.74	18.09	17.11	18.40	18.71
	3H	8.69	9.88	9.07	10.21	10.57	17.25	18.44	17.63	18.77	19.14
	4H	9.20	10.31	9.61	10.66	11.05	17.27	18.38	17.67	18.73	19.12
	6H	9.64	10.66	10.05	11.03	11.42	17.28	18.30	17.70	18.67	19.07
	8H	9.83	10.80	10.26	11.19	11.59	17.29	18.25	17.72	18.64	19.05
	12H	10.01	10.93	10.44	11.32	11.75	17.29	18.21	17.72	18.60	19.03
4H	2H	8.72	9.83	9.12	10.18	10.56	16.64	17.75	17.04	18.10	18.48
	3H	10.06	10.97	10.47	11.37	11.78	17.23	18.14	17.64	18.54	18.94
	4H	10.80	11.61	11.23	12.03	12.47	17.29	18.10	17.72	18.52	18.96
	6H	11.40	12.11	11.87	12.55	13.02	17.36	18.06	17.82	18.51	18.98
	8H	11.65	12.30	12.12	12.75	13.22	17.39	18.05	17.86	18.49	18.96
	12H	11.88	12.46	12.37	12.95	13.42	17.43	18.01	17.92	18.50	18.97
8H	4H	11.26	11.92	11.73	12.37	12.84	17.24	17.90	17.71	18.35	18.82
	6H	12.11	12.65	12.61	13.15	13.63	17.37	17.91	17.87	18.40	18.88
	8H	12.52	13.00	13.04	13.52	14.01	17.45	17.94	17.97	18.45	18.94
	12H	12.94	13.37	13.46	13.86	14.43	17.57	18.00	18.09	18.50	19.07
12H	4H	11.32	11.90	11.80	12.38	12.85	17.22	17.80	17.70	18.28	18.75
	6H	12.24	12.73	12.77	13.24	13.73	17.35	17.84	17.87	18.35	18.84
	8H	12.77	13.20	13.28	13.69	14.26	17.49	17.91	18.00	18.41	18.98