

Scaled data based on original data using
LM-79-2019 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: S124RDR-S1195D935-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
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: S124RDR-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

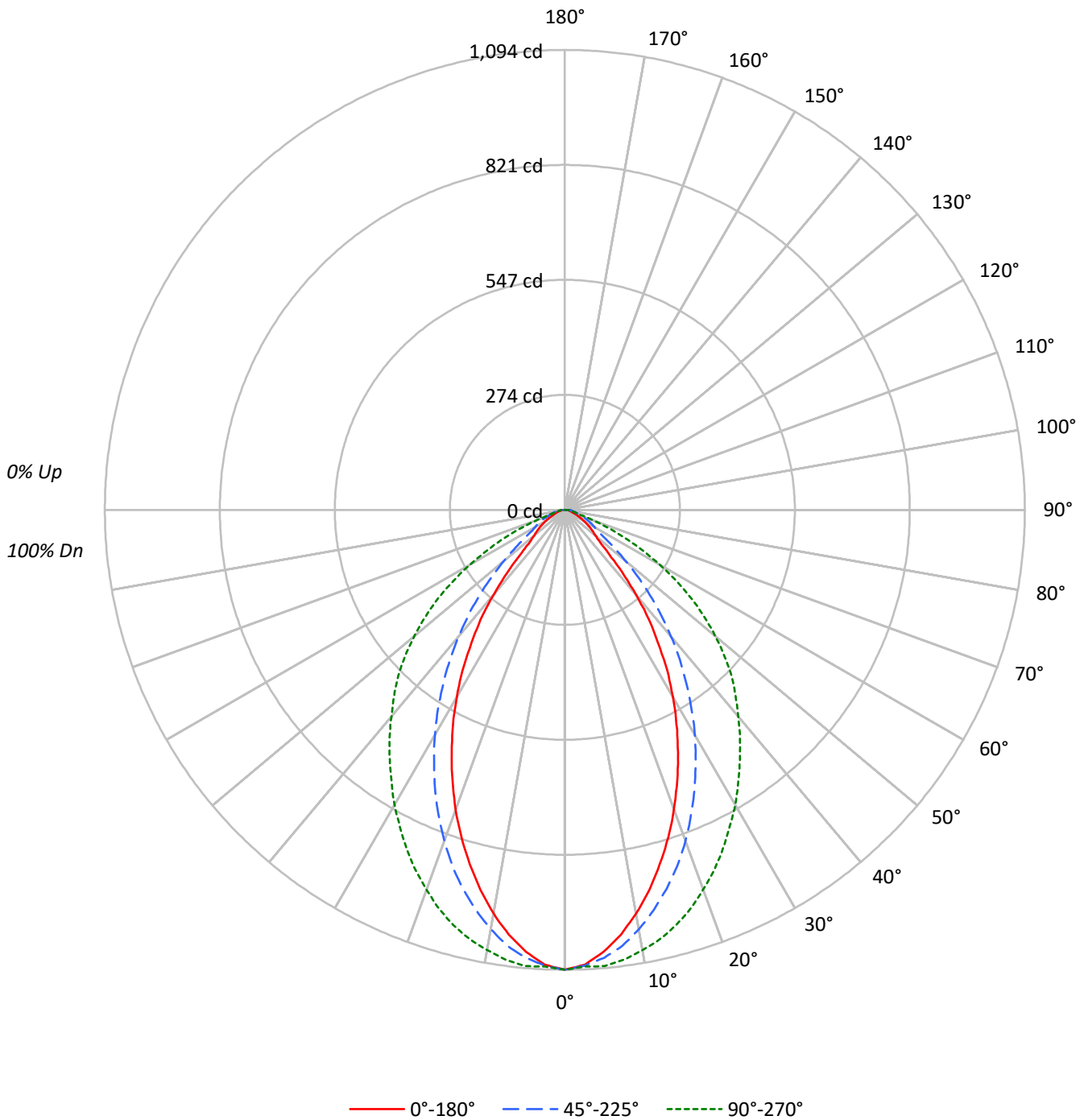
Lumens per Lamp: N/A
Luminaire Lumens: 1548.1 lumens
Efficiency: N/A
Efficacy: 37.0 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (Ain): 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

(END OF REPORT)