

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: P1060313

Luminaire Tested: S124RDR-S1195D835-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060313
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-77)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S1195D835-X4F0-XX-UDD-SVL-S
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

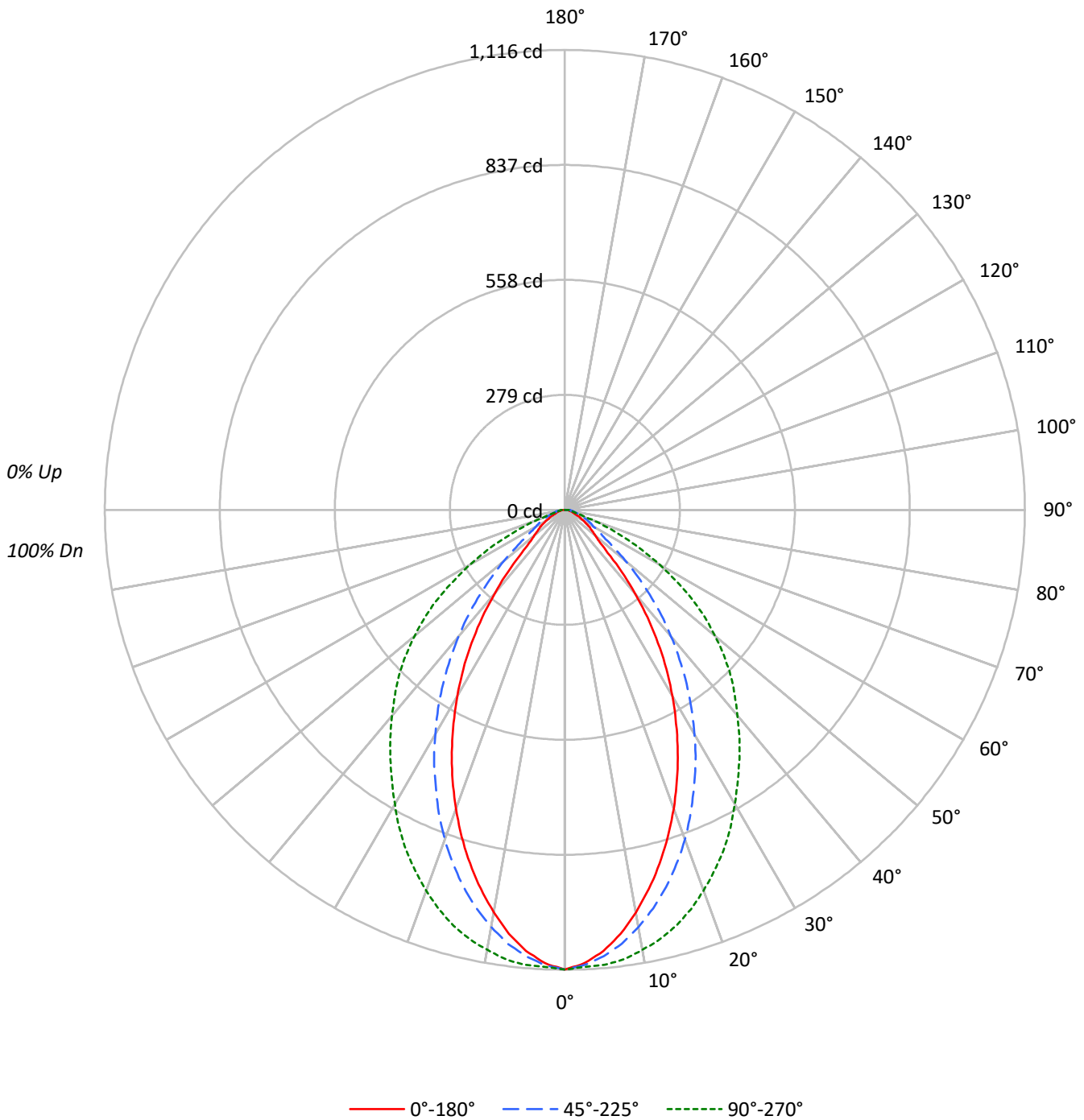
Lumens per Lamp: N/A
Luminaire Lumens: 1568.5 lumens
Efficiency: N/A
Efficacy: 37.5 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79				79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70				70
4	90	80	73	68	88	79	72	67	77	71	67	75	70	66	73	68	65	63				63
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57				57
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51				51
7	74	62	55	50	72	62	54	49	60	54	49	59	53	49	58	52	49	47				47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	45	43				43
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39				39
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9606	9606	9606
5°	9286	9397	9581
10°	8674	8984	9480
15°	7920	8451	9312
20°	7074	7803	9013
25°	6163	7039	8657
30°	5192	6251	8198
35°	4147	5416	7758
40°	2983	4499	7322
45°	1797	3543	6930
50°	1293	2567	6369
55°	1087	1727	5646
60°	880	1369	4547
65°	695	1243	3268
70°	607	1037	1750
75°	566	945	848
80°	565	987	774
85°	840	1403	978

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6930 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.4	6.5
10°-20°	268.3	17.1
20°-30°	348.1	22.2
30°-40°	334.6	21.3
40°-50°	248.3	15.8
50°-60°	152.1	9.7
60°-70°	73.9	4.7
70°-80°	28.1	1.8
80°-90°	12.6	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°	718.8	45.8
0°-40°	1053.5	67.2
0°-60°	1453.8	92.7
0°-90°	1568.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1568.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1116	1116	1116	1116	1116	
5°	1074	1090	1087	1097	1108	100
15°	888	914	948	1005	1044	248
25°	649	681	741	836	911	296
35°	394	430	515	637	738	244
45°	148	184	291	444	569	122
55°	72	75	115	260	376	65
65°	34	37	61	96	160	35
75°	17	27	28	26	26	18
85°	8	14	14	13	10	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1115.5	1115.5	1115.5	1115.5	1115.5
2.5°	1101.3	1114.0	1105.5	1108.4	1109.8
5°	1074.3	1089.9	1087.1	1097.0	1108.4
7.5°	1037.4	1055.8	1061.5	1081.4	1099.8
10°	992.0	1014.7	1027.5	1060.1	1084.2
12.5°	942.3	966.4	990.6	1034.6	1067.2
15°	888.4	913.9	948.0	1004.8	1044.5
17.5°	831.6	860.0	901.2	969.3	1016.1
20°	772.0	801.8	851.5	926.7	983.5
22.5°	711.0	742.2	797.6	881.3	948.0
25°	648.6	681.2	740.8	835.9	911.1
27.5°	584.7	618.8	686.9	787.6	869.9
30°	522.2	554.9	628.7	738.0	824.5
32.5°	458.4	492.4	571.9	686.9	780.5
35°	394.5	430.0	515.2	637.2	738.0
37.5°	329.2	367.6	457.0	588.9	695.4
40°	265.4	302.3	400.2	539.3	651.4
42.5°	202.9	242.7	346.3	489.6	610.2
45°	147.6	184.5	290.9	444.2	569.1
47.5°	110.7	133.4	239.8	401.6	523.7
50°	96.5	100.8	191.6	354.8	475.4
52.5°	83.7	86.6	149.0	303.7	427.2
55°	72.4	75.2	115.0	259.7	376.1
57.5°	61.0	63.9	92.2	217.1	317.9
60°	51.1	53.9	79.5	173.1	264.0
62.5°	42.6	44.0	71.0	132.0	211.5
65°	34.1	36.9	61.0	96.5	160.4
67.5°	28.4	31.2	49.7	66.7	112.1
70°	24.1	31.2	41.2	46.8	69.5
72.5°	19.9	28.4	34.1	32.6	32.6
75°	17.0	27.0	28.4	25.5	25.5
77.5°	14.2	24.1	22.7	21.3	19.9
80°	11.4	19.9	19.9	17.0	15.6
82.5°	9.9	15.6	15.6	15.6	12.8
85°	8.5	14.2	14.2	12.8	9.9
87.5°	5.7	11.4	12.8	11.4	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)