

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: P1060314

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060314
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-S1195D835-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, 80 CRI LEDS
Ballast/Driver: -

Summary

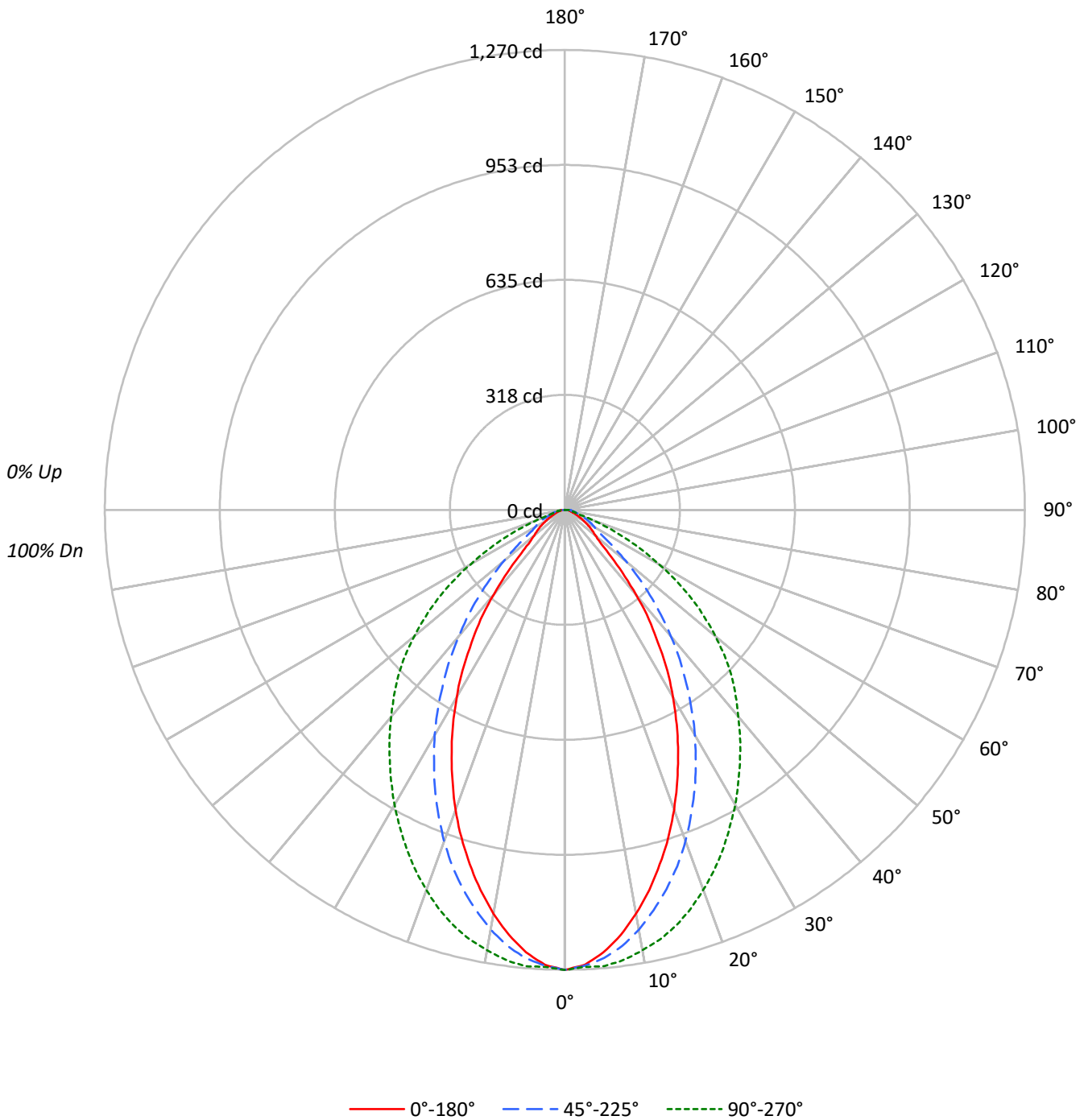
Lumens per Lamp: N/A
Luminaire Lumens: 1798.0 lumens
Efficiency: N/A
Efficacy: 43.0 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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°	10940	10940	10940
5°	10601	10736	10932
10°	9904	10289	10798
15°	9035	9667	10592
20°	8078	8923	10237
25°	7026	8065	9818
30°	5928	7141	9358
35°	4715	6148	8863
40°	3431	5121	8377
45°	2074	4044	7934
50°	1483	2928	7264
55°	1257	1982	6414
60°	1026	1614	5182
65°	809	1447	3731
70°	680	1216	1966
75°	616	1135	991
80°	635	1126	987
85°	840	1680	1126

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7934 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.9	6.5
10°-20°	306.5	17.0
20°-30°	397.5	22.1
30°-40°	382.6	21.3
40°-50°	284.6	15.8
50°-60°	175.1	9.7
60°-70°	86.0	4.8
70°-80°	33.5	1.9
80°-90°	15.3	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°	820.9	45.7
0°-40°	1203.5	66.9
0°-60°	1663.2	92.5
0°-90°	1798.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1798.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1270	1270	1270	1270	1270	
5°	1226	1245	1242	1253	1265	114
15°	1014	1046	1084	1150	1188	283
25°	740	779	849	955	1033	338
35°	448	491	585	731	843	280
45°	170	212	332	512	652	141
55°	84	87	132	301	427	75
65°	40	43	71	114	183	41
75°	18	33	34	31	30	20
85°	8	16	17	17	11	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1270.4	1270.4	1270.4	1270.4	1270.4
2.5°	1257.6	1271.8	1260.4	1261.9	1263.3
5°	1226.4	1244.8	1242.0	1253.3	1264.7
7.5°	1183.8	1205.1	1215.0	1237.7	1253.3
10°	1132.7	1156.8	1176.7	1213.6	1234.9
12.5°	1075.9	1104.3	1132.7	1182.4	1215.0
15°	1013.5	1046.1	1084.4	1149.7	1188.1
17.5°	949.6	982.2	1031.9	1107.1	1155.4
20°	881.5	916.9	973.7	1057.5	1117.1
22.5°	810.5	848.8	911.3	1006.4	1077.3
25°	739.5	779.3	848.8	955.3	1033.3
27.5°	668.5	706.9	782.1	901.3	986.5
30°	596.2	635.9	718.2	843.1	941.1
32.5°	526.6	563.5	651.5	787.8	891.4
35°	448.5	491.1	584.8	731.0	843.1
37.5°	381.8	420.1	520.9	674.2	794.9
40°	305.2	347.8	455.6	618.9	745.2
42.5°	234.2	276.8	393.2	563.5	698.4
45°	170.3	211.5	332.1	512.4	651.5
47.5°	129.2	153.3	272.5	462.7	599.0
50°	110.7	117.8	218.6	408.8	542.2
52.5°	97.9	100.8	170.3	354.9	485.4
55°	83.7	86.6	132.0	300.9	427.2
57.5°	71.0	72.4	106.5	249.8	364.8
60°	59.6	61.0	93.7	200.1	300.9
62.5°	49.7	51.1	83.7	154.7	239.9
65°	39.7	42.6	71.0	113.6	183.1
67.5°	32.6	38.3	59.6	79.5	127.7
70°	27.0	36.9	48.3	55.4	78.1
72.5°	22.7	34.1	41.2	39.7	38.3
75°	18.5	32.6	34.1	31.2	29.8
77.5°	15.6	28.4	28.4	25.5	24.1
80°	12.8	22.7	22.7	22.7	19.9
82.5°	11.4	18.5	19.9	19.9	15.6
85°	8.5	15.6	17.0	17.0	11.4
87.5°	5.7	14.2	15.6	14.2	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)