

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: P1060368

Luminaire Tested: S124RDR-S1195D940-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060368
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-S1195D940-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

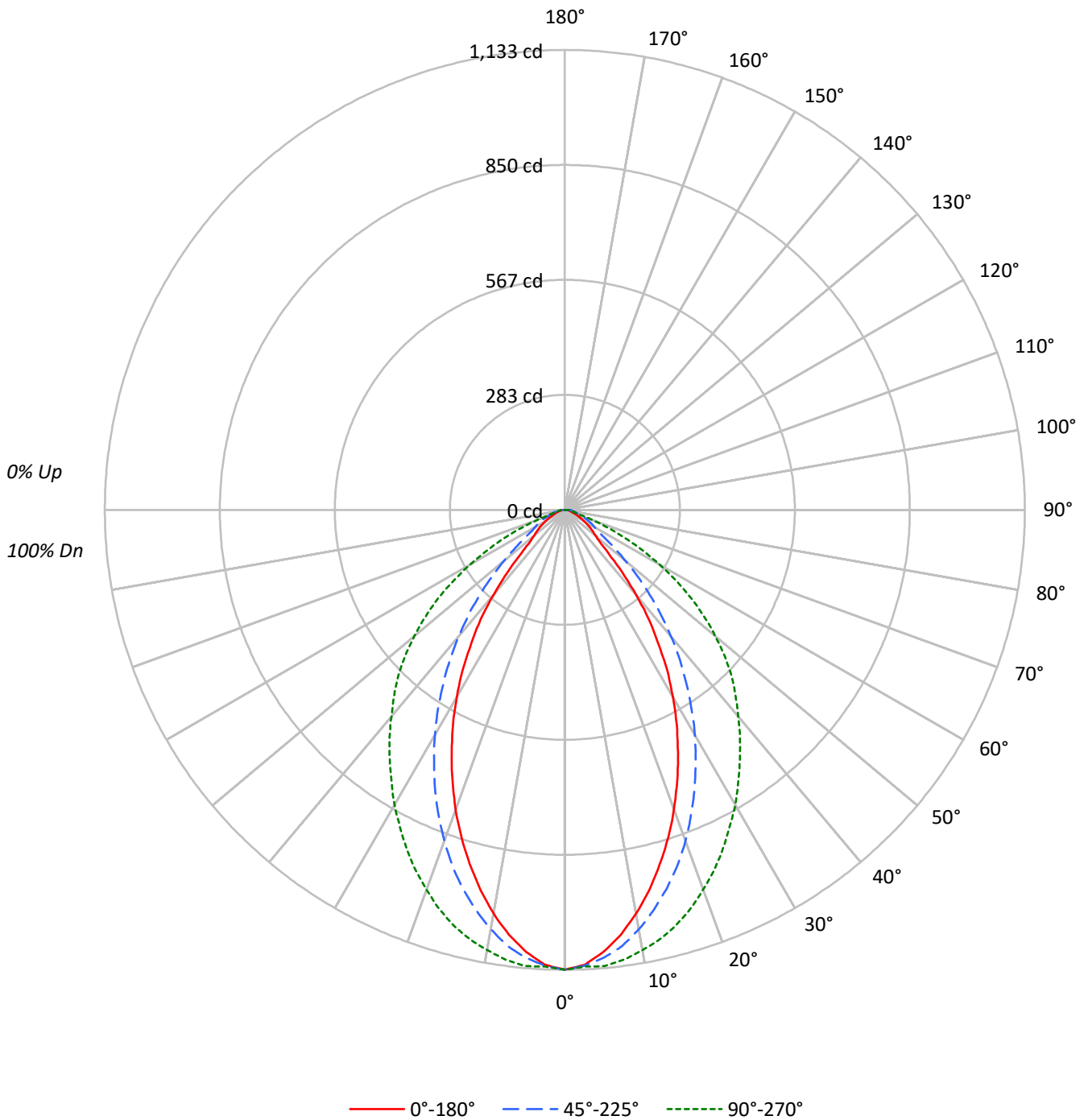
Lumens per Lamp: N/A
Luminaire Lumens: 1603.4 lumens
Efficiency: N/A
Efficacy: 38.4 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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°	9755	9755	9755
5°	9453	9573	9748
10°	8831	9175	9629
15°	8056	8621	9444
20°	7203	7957	9128
25°	6265	7192	8755
30°	5286	6369	8344
35°	4205	5482	7903
40°	3059	4567	7470
45°	1850	3607	7075
50°	1322	2611	6477
55°	1121	1767	5720
60°	916	1438	4621
65°	721	1290	3327
70°	604	1083	1752
75°	549	1011	885
80°	565	1007	878
85°	751	1502	998

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7075 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.3	6.5
10°-20°	273.3	17.0
20°-30°	354.4	22.1
30°-40°	341.2	21.3
40°-50°	253.8	15.8
50°-60°	156.1	9.7
60°-70°	76.7	4.8
70°-80°	29.9	1.9
80°-90°	13.6	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°	732.0	45.7
0°-40°	1073.2	66.9
0°-60°	1483.1	92.5
0°-90°	1603.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1603.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1133	1133	1133	1133	1133	
5°	1094	1110	1108	1118	1128	102
15°	904	933	967	1025	1059	252
25°	659	695	757	852	921	302
35°	400	438	522	652	752	250
45°	152	189	296	457	581	126
55°	75	77	118	268	381	67
65°	35	38	63	101	163	36
75°	16	29	30	28	27	18
85°	8	14	15	15	10	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1132.8	1132.8	1132.8	1132.8	1132.8
2.5°	1121.4	1134.1	1124.0	1125.2	1126.5
5°	1093.6	1110.0	1107.5	1117.6	1127.7
7.5°	1055.6	1074.6	1083.4	1103.7	1117.6
10°	1010.0	1031.6	1049.3	1082.2	1101.2
12.5°	959.4	984.7	1010.0	1054.3	1083.4
15°	903.7	932.8	967.0	1025.2	1059.4
17.5°	846.8	875.9	920.2	987.3	1030.3
20°	786.0	817.6	868.3	943.0	996.1
22.5°	722.7	756.9	812.6	897.4	960.7
25°	659.4	694.9	756.9	851.8	921.4
27.5°	596.2	630.3	697.4	803.7	879.7
30°	531.6	567.0	640.5	751.8	839.2
32.5°	469.6	502.5	581.0	702.5	794.9
35°	400.0	437.9	521.5	651.8	751.8
37.5°	340.5	374.7	464.5	601.2	708.8
40°	272.1	310.1	406.3	551.9	664.5
42.5°	208.8	246.8	350.6	502.5	622.7
45°	151.9	188.6	296.2	456.9	581.0
47.5°	115.2	136.7	243.0	412.6	534.1
50°	98.7	105.1	194.9	364.5	483.5
52.5°	87.3	89.9	151.9	316.4	432.9
55°	74.7	77.2	117.7	268.3	381.0
57.5°	63.3	64.6	94.9	222.8	325.3
60°	53.2	54.4	83.5	178.5	268.3
62.5°	44.3	45.6	74.7	138.0	213.9
65°	35.4	38.0	63.3	101.3	163.3
67.5°	29.1	34.2	53.2	70.9	113.9
70°	24.0	32.9	43.0	49.4	69.6
72.5°	20.3	30.4	36.7	35.4	34.2
75°	16.5	29.1	30.4	27.8	26.6
77.5°	13.9	25.3	25.3	22.8	21.5
80°	11.4	20.3	20.3	20.3	17.7
82.5°	10.1	16.5	17.7	17.7	13.9
85°	7.6	13.9	15.2	15.2	10.1
87.5°	5.1	12.7	13.9	12.7	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)