

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: P1059066

Luminaire Tested: S123RDR-S1000D935-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1059066
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-64)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDR-S1000D935-X4F0-XX-UDD-WVL-W
Description: DEFINE 3 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

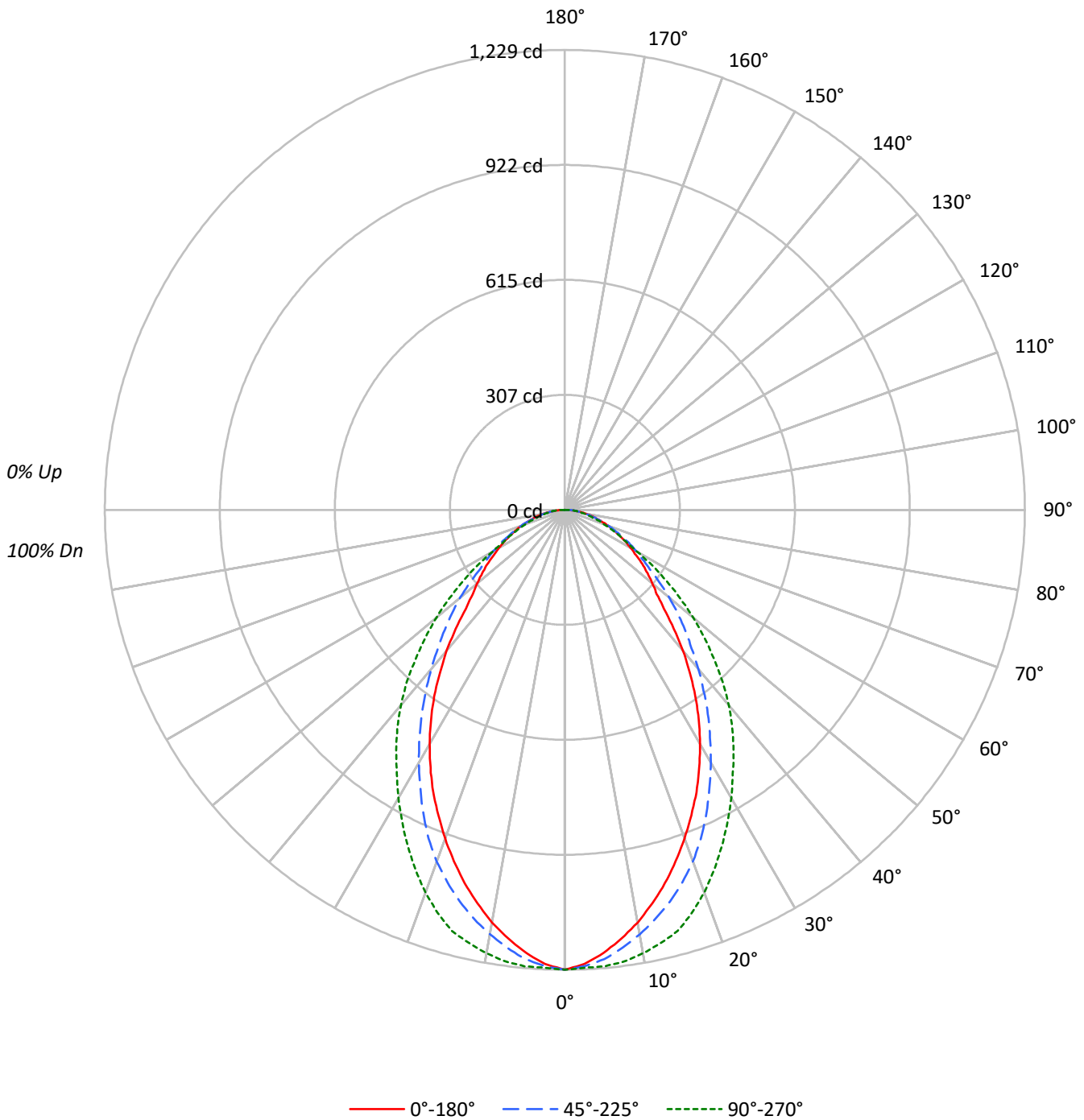
Lumens per Lamp: N/A
Luminaire Lumens: 2159.1 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.1 / 1.09
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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				
1	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89	87				
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75				
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66				
4	87	76	69	63	85	75	68	62	73	66	61	70	65	61	68	64	60	58				
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	51				
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46				
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	41				
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38				
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34				
10	58	46	39	34	57	45	38	34	45	38	34	44	38	33	43	37	33	32				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14428	14428	14428
5°	14010	14210	14434
10°	13352	13730	14349
15°	12559	13177	14166
20°	11681	12500	13597
25°	10782	11591	12851
30°	9792	10581	12058
35°	8716	9550	11263
40°	7522	8510	10439
45°	6216	7533	9359
50°	5583	6646	8171
55°	5173	5671	6776
60°	4767	5164	5190
65°	4437	4671	4348
70°	4175	4247	3811
75°	3934	3788	3357
80°	3719	3435	3144
85°	3557	3853	3557

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 9359 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.8	5.3
10°-20°	306.6	14.2
20°-30°	414.8	19.2
30°-40°	426.2	19.7
40°-50°	358.0	16.6
50°-60°	256.6	11.9
60°-70°	163.4	7.6
70°-80°	89.8	4.2
80°-90°	29.9	1.4
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°	835.2	38.7
0°-40°	1261.4	58.4
0°-60°	1876.0	86.9
0°-90°	2159.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2159.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1229	1229	1229	1229	1229	
5°	1189	1210	1206	1214	1224	111
15°	1033	1062	1084	1130	1165	289
25°	832	864	895	943	992	381
35°	608	641	666	725	786	378
45°	374	407	454	519	564	296
55°	253	258	277	314	331	226
65°	160	169	168	159	156	159
75°	87	95	84	77	74	92
85°	26	28	29	30	26	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1228.7	1228.7	1228.7	1228.7	1228.7
2.5°	1215.0	1231.9	1220.3	1221.3	1224.5
5°	1188.6	1209.7	1205.5	1213.9	1224.5
7.5°	1155.8	1179.0	1180.1	1200.2	1217.1
10°	1119.8	1144.1	1151.5	1182.2	1203.4
12.5°	1077.5	1104.0	1119.8	1157.9	1185.4
15°	1033.1	1061.7	1083.9	1130.4	1165.3
17.5°	984.5	1015.1	1043.7	1093.4	1129.3
20°	934.8	967.6	1000.3	1046.9	1088.1
22.5°	883.0	916.8	950.6	996.1	1041.6
25°	832.2	863.9	894.6	943.2	991.9
27.5°	777.2	810.0	836.4	890.4	941.1
30°	722.2	755.0	780.4	836.4	889.3
32.5°	665.1	699.0	722.2	780.4	835.4
35°	608.0	640.8	666.2	725.4	785.7
37.5°	547.8	583.7	609.1	675.7	734.9
40°	490.7	524.5	555.2	624.9	681.0
42.5°	431.4	466.3	501.2	573.1	624.9
45°	374.3	407.1	453.6	519.2	563.6
47.5°	333.1	354.2	408.2	463.2	505.5
50°	305.6	314.1	363.8	412.4	447.3
52.5°	278.1	284.5	318.3	362.7	389.1
55°	252.7	258.0	277.0	314.1	331.0
57.5°	225.2	230.5	246.4	267.5	277.0
60°	203.0	207.3	219.9	223.1	221.0
62.5°	180.8	187.2	193.5	186.1	182.9
65°	159.7	169.2	168.1	158.6	156.5
67.5°	140.6	150.2	144.9	135.4	132.2
70°	121.6	131.1	123.7	114.2	111.0
72.5°	103.6	114.2	102.6	94.1	92.0
75°	86.7	95.2	83.5	77.2	74.0
77.5°	70.8	77.2	66.6	61.3	59.2
80°	55.0	59.2	50.8	47.6	46.5
82.5°	40.2	42.3	37.0	39.1	38.1
85°	26.4	27.5	28.6	29.6	26.4
87.5°	12.7	18.0	18.0	16.9	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)