

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: P1060378

Luminaire Tested: S124RDR-S1195D950-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-37)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S1195D950-X4F0-XX-UDD-WVL-B
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

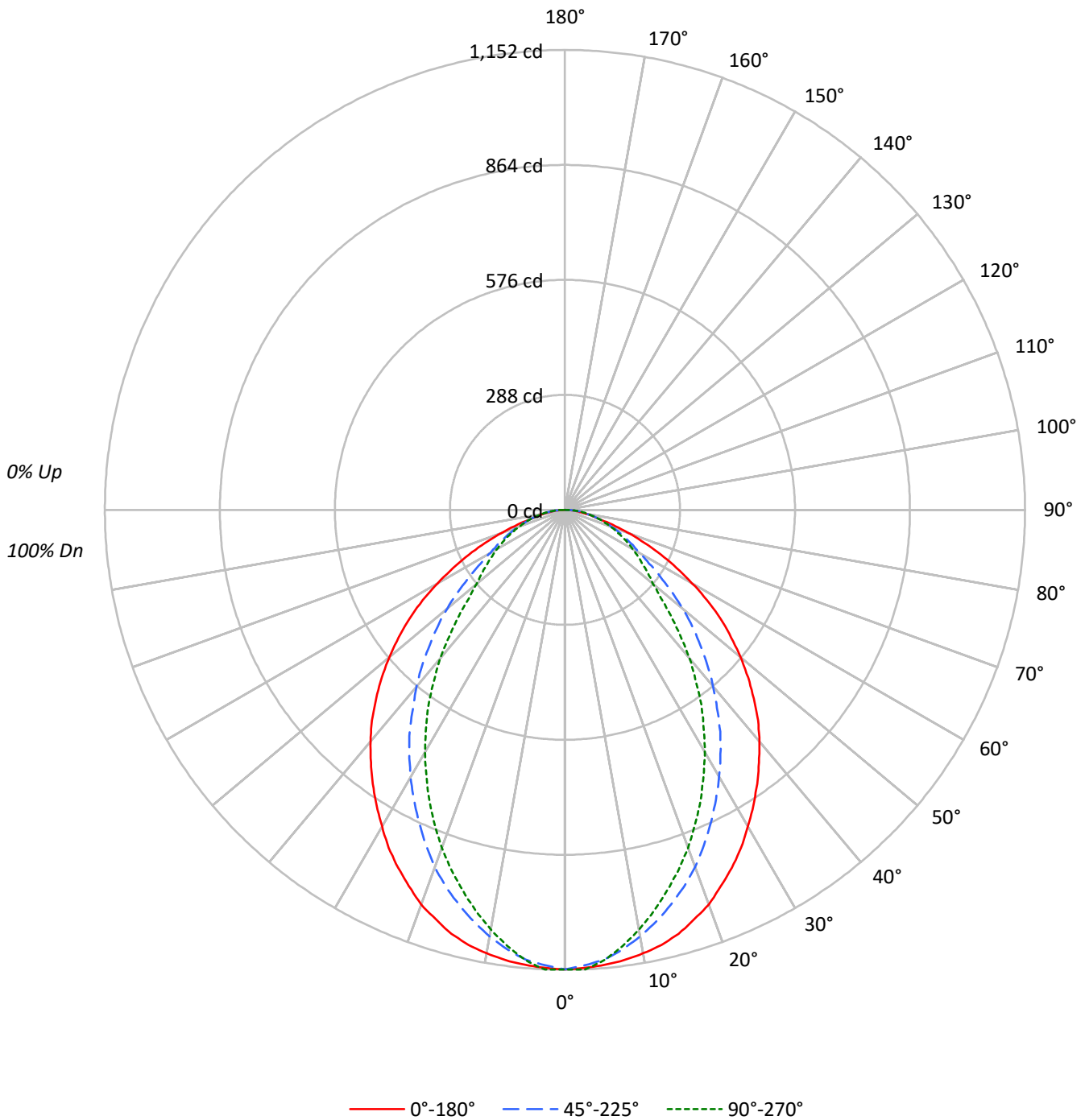
Lumens per Lamp: N/A
Luminaire Lumens: 2219.6 lumens
Efficiency: N/A
Efficacy: 53.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.96 / 1.12
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86			86	
2	101	94	88	83	99	92	86	82	89	84	80	85	82	78	82	79	76	74			74	
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64			64	
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56			56	
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50			50	
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44			44	
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40			40	
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36			36	
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33			33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30			30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9912	9912	9912
5°	9892	9775	9787
10°	9864	9485	9332
15°	9804	9129	8803
20°	9644	8727	8256
25°	9395	8213	7634
30°	9106	7680	6967
35°	8817	7124	6257
40°	8515	6493	5459
45°	8137	5831	4563
50°	7683	5147	3860
55°	7148	4366	3575
60°	6336	3705	3377
65°	5402	3417	3197
70°	4222	3167	3031
75°	2881	2925	2925
80°	2479	2752	2817
85°	2134	2678	2944

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8137 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.1	4.8
10°-20°	290.9	13.1
20°-30°	403.8	18.2
30°-40°	432.8	19.5
40°-50°	383.4	17.3
50°-60°	289.0	13.0
60°-70°	187.1	8.4
70°-80°	96.0	4.3
80°-90°	29.5	1.3
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°	801.7	36.1
0°-40°	1234.6	55.6
0°-60°	1907.0	85.9
0°-90°	2219.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2219.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1151	1151	1151	1151	1151	
5°	1144	1146	1131	1132	1132	109
15°	1100	1075	1024	998	988	309
25°	989	936	864	818	804	455
35°	839	763	678	617	595	524
45°	668	582	479	404	375	515
55°	476	396	291	245	238	423
65°	265	214	168	158	157	263
75°	87	91	88	88	88	102
85°	22	23	27	30	30	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1151.1	1151.1	1151.1	1151.1	1151.1
2.5°	1148.4	1152.5	1141.7	1149.8	1152.5
5°	1144.4	1145.7	1130.8	1132.2	1132.2
7.5°	1137.6	1134.9	1110.5	1103.8	1102.4
10°	1128.1	1120.0	1084.8	1071.3	1067.3
12.5°	1116.0	1101.1	1056.4	1037.5	1029.4
15°	1099.7	1075.4	1024.0	998.3	987.5
17.5°	1075.4	1044.3	990.2	957.7	945.5
20°	1052.4	1010.4	952.3	911.7	900.9
22.5°	1019.9	975.3	909.0	865.7	852.2
25°	988.8	936.0	864.4	818.4	803.5
27.5°	955.0	895.5	818.4	769.7	750.7
30°	915.8	852.2	772.4	721.0	700.7
32.5°	877.9	810.3	725.0	668.2	646.6
35°	838.7	762.9	677.7	616.8	595.2
37.5°	798.1	718.3	624.9	565.4	537.0
40°	757.5	673.6	577.6	510.0	485.6
42.5°	715.6	627.6	528.9	458.6	427.4
45°	668.2	581.6	478.8	404.4	374.7
47.5°	622.2	537.0	432.9	351.7	324.6
50°	573.5	489.7	384.2	305.7	288.1
52.5°	524.8	441.0	336.8	270.5	262.4
55°	476.1	396.3	290.8	244.8	238.1
57.5°	422.0	350.3	250.2	221.8	216.4
60°	367.9	300.3	215.1	200.2	196.1
62.5°	315.2	257.0	190.7	178.6	175.8
65°	265.1	213.7	167.7	158.3	156.9
67.5°	216.4	175.8	146.1	140.7	138.0
70°	167.7	140.7	125.8	123.1	120.4
72.5°	124.4	113.6	106.9	105.5	104.2
75°	86.6	90.6	87.9	87.9	87.9
77.5°	69.0	70.3	71.7	73.0	71.7
80°	50.0	54.1	55.5	58.2	56.8
82.5°	35.2	37.9	41.9	43.3	44.6
85°	21.6	23.0	27.1	29.8	29.8
87.5°	9.5	10.8	13.5	16.2	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)