

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: P1060365

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060365
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-75)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S1195D940-X4F0-XX-UDD-BVL-W
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

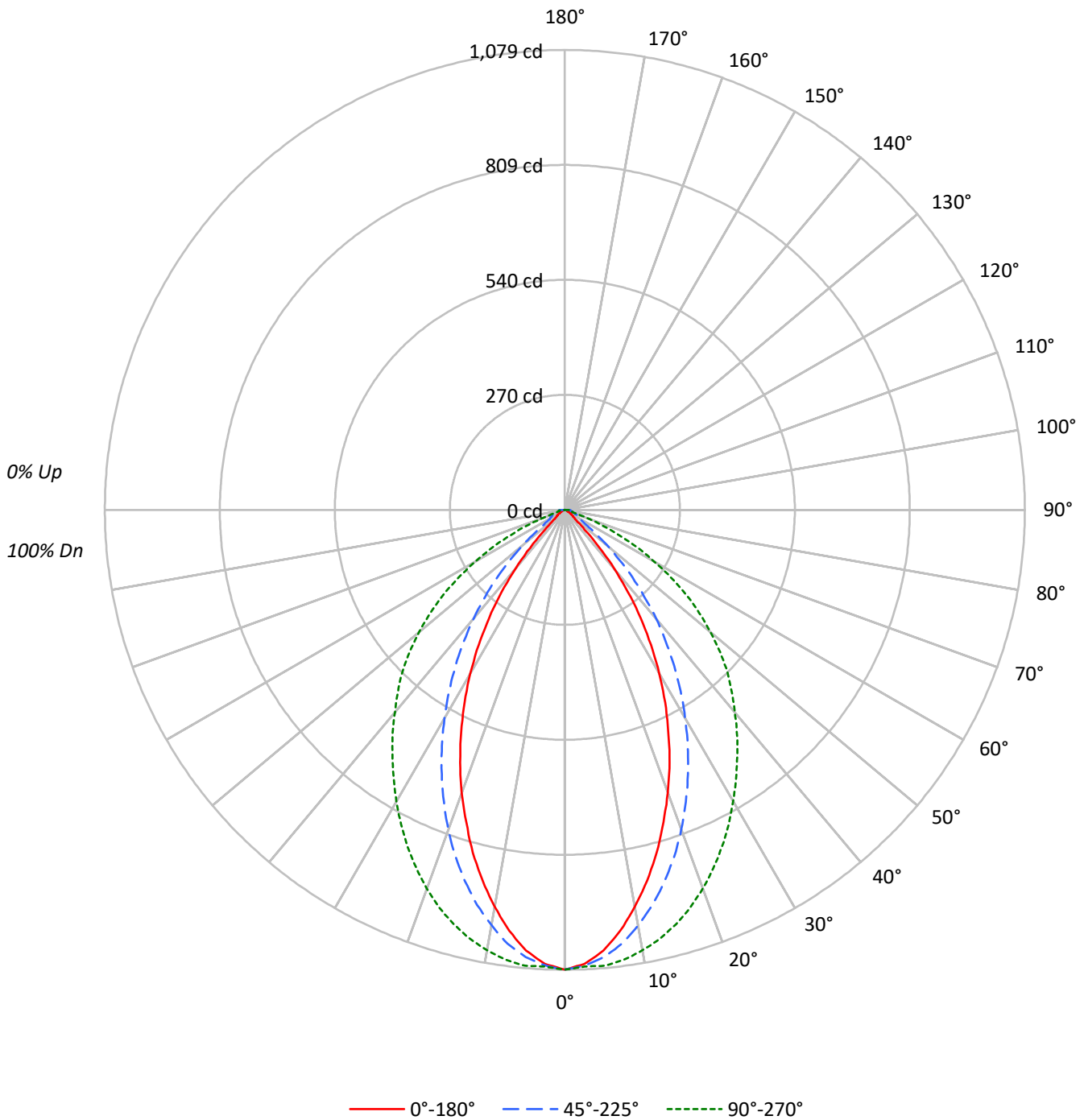
Lumens per Lamp: N/A
Luminaire Lumens: 1359.4 lumens
Efficiency: N/A
Efficacy: 32.5 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.11 / 0.97
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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										
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	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	100	100	100	100	100														
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90	90	90	90	90	90	90														
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81	81	81	81	81	81	81														
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72	72	72	72	72	72	72														
4	91	82	75	70	89	81	75	70	79	73	69	76	72	68	74	70	67	65	65	65	65	65	65	65														
5	86	75	68	63	84	74	68	63	72	67	62	71	66	62	69	65	61	59	59	59	59	59	59	59														
6	80	70	62	57	79	69	62	57	67	61	56	66	60	56	64	59	56	54	54	54	54	54	54	54														
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49	49	49	49	49	49	49														
8	71	60	53	48	70	59	52	48	58	52	48	57	51	47	56	51	47	45	45	45	45	45	45	45														
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42	42	42	42	42	42	42														
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39	39	39	39	39	39	39														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9288	9288	9288
5°	8973	9105	9280
10°	8269	8657	9177
15°	7426	8047	8973
20°	6473	7320	8666
25°	5461	6495	8288
30°	4406	5614	7855
35°	3261	4698	7413
40°	2021	3743	6973
45°	801	2729	6568
50°	356	1713	5969
55°	285	893	5228
60°	196	675	4164
65°	128	670	2863
70°	128	607	1339
75°	170	589	589
80°	253	689	689
85°	504	1373	998

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6568 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.9	7.3
10°-20°	255.4	18.8
20°-30°	322.3	23.7
30°-40°	295.7	21.8
40°-50°	201.4	14.8
50°-60°	109.7	8.1
60°-70°	47.5	3.5
70°-80°	17.3	1.3
80°-90°	11.1	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°	676.6	49.8
0°-40°	972.4	71.5
0°-60°	1283.5	94.4
0°-90°	1359.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1359.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1079	1079	1079	1079	1079	
5°	1038	1052	1053	1065	1074	96
15°	833	862	903	967	1006	232
25°	575	615	684	792	872	263
35°	310	356	447	589	705	192
45°	66	110	224	398	539	61
55°	19	20	60	219	348	17
65°	6	9	33	68	140	7
75°	5	16	18	18	18	5
85°	5	11	14	14	10	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1078.6	1078.6	1078.6	1078.6	1078.6
2.5°	1066.0	1078.6	1069.8	1072.3	1072.3
5°	1038.1	1052.0	1053.3	1064.7	1073.6
7.5°	996.3	1016.6	1026.7	1049.5	1064.7
10°	945.7	969.8	990.0	1029.3	1049.5
12.5°	891.3	919.1	949.5	1001.4	1030.5
15°	833.0	862.1	902.7	967.2	1006.5
17.5°	768.5	803.9	853.3	930.5	978.6
20°	706.4	741.9	798.8	886.2	945.7
22.5°	641.9	678.6	741.9	839.4	910.3
25°	574.8	615.3	683.6	792.5	872.3
27.5°	508.9	552.0	624.1	743.1	831.8
30°	443.1	486.1	564.6	692.5	790.0
32.5°	376.0	420.3	505.1	639.3	746.9
35°	310.2	355.7	446.9	588.7	705.2
37.5°	243.1	291.2	388.7	539.3	663.4
40°	179.8	227.9	333.0	489.9	620.3
42.5°	120.3	168.4	276.0	441.8	579.8
45°	65.8	110.1	224.1	397.5	539.3
47.5°	35.4	60.8	173.4	354.5	493.7
50°	26.6	32.9	127.9	308.9	445.6
52.5°	22.8	25.3	88.6	260.8	397.5
55°	19.0	20.3	59.5	219.0	348.2
57.5°	15.2	16.5	44.3	177.2	295.0
60°	11.4	13.9	39.2	136.7	241.8
62.5°	8.9	11.4	36.7	100.0	191.2
65°	6.3	8.9	32.9	68.4	140.5
67.5°	6.3	10.1	27.9	44.3	95.0
70°	5.1	13.9	24.1	29.1	53.2
72.5°	5.1	15.2	20.3	20.3	20.3
75°	5.1	16.5	17.7	17.7	17.7
77.5°	5.1	15.2	16.5	15.2	15.2
80°	5.1	13.9	13.9	13.9	13.9
82.5°	5.1	12.7	13.9	13.9	11.4
85°	5.1	11.4	13.9	13.9	10.1
87.5°	3.8	11.4	12.7	12.7	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)