

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: P1061580

Luminaire Tested: S125RDR-S1270D940-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061580
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-84)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1270D940-X4F0-XX-UDD-BVL-W
Description: DEFINE 5 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

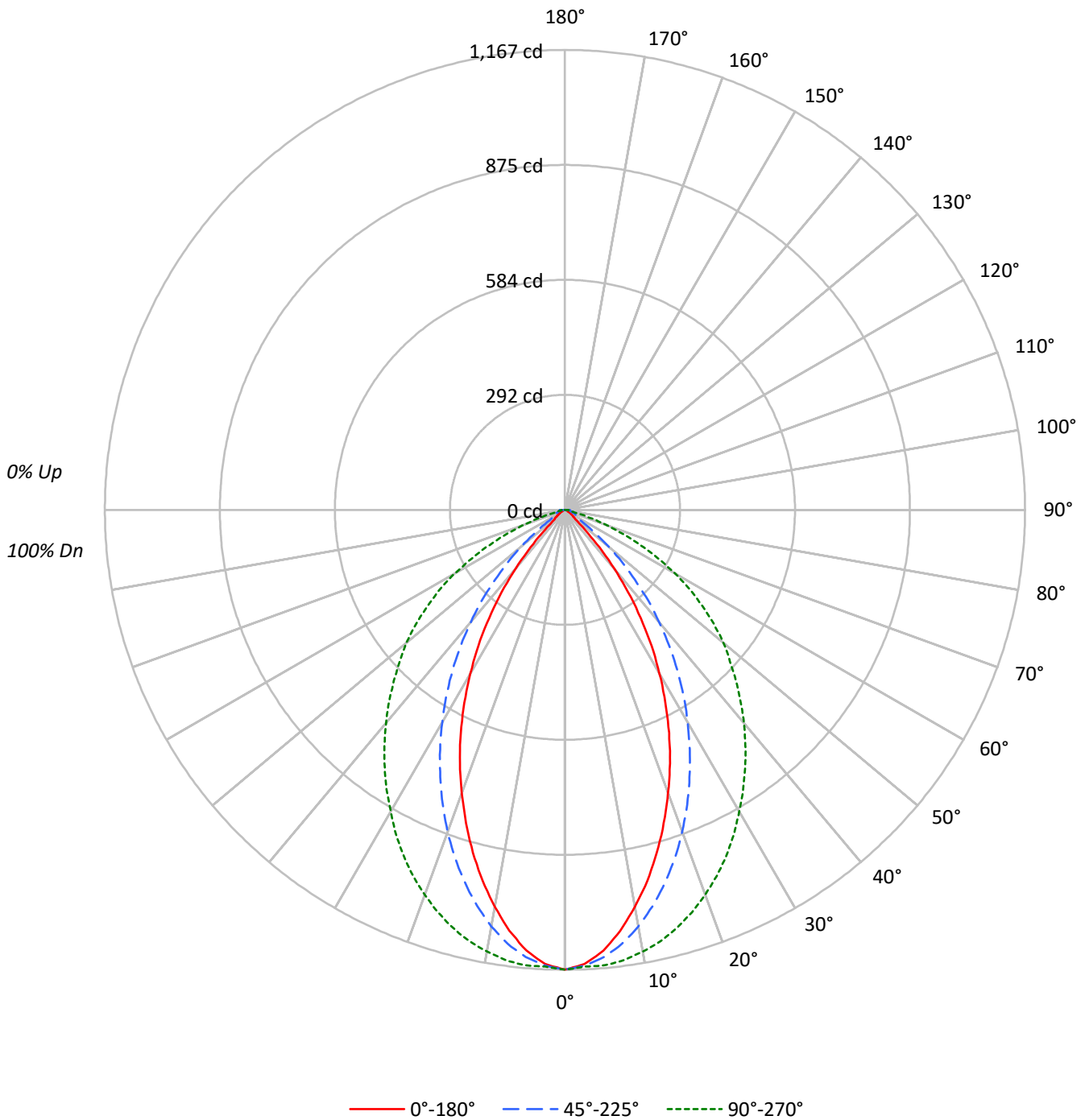
Lumens per Lamp: N/A
Luminaire Lumens: 1509.4 lumens
Efficiency: N/A
Efficacy: 36.1 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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				
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80				
3	98	89	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72				
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65				
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59				
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53				
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49				
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45				
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41				
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8032	8032	8032
5°	7758	7875	8018
10°	7150	7504	7957
15°	6422	6986	7826
20°	5604	6373	7617
25°	4747	5682	7356
30°	3813	4947	7028
35°	2822	4173	6701
40°	1747	3332	6349
45°	682	2436	5970
50°	319	1527	5624
55°	233	653	5104
60°	161	464	4427
65°	106	485	3442
70°	105	443	2166
75°	138	450	689
80°	206	515	464
85°	308	1027	719

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5970 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.0	7.1
10°-20°	277.2	18.4
20°-30°	353.1	23.4
30°-40°	328.6	21.8
40°-50°	226.2	15.0
50°-60°	128.0	8.5
60°-70°	60.5	4.0
70°-80°	18.9	1.3
80°-90°	9.9	0.7
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°	737.2	48.8
0°-40°	1065.9	70.6
0°-60°	1420.1	94.1
0°-90°	1509.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1509.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1167	1167	1167	1167	1167	
5°	1122	1138	1139	1150	1160	104
15°	901	931	980	1054	1098	251
25°	625	665	748	874	968	285
35°	336	382	496	666	797	208
45°	70	112	250	452	613	66
55°	19	22	54	260	425	18
65°	6	8	30	93	211	7
75°	5	12	17	18	26	6
85°	4	10	13	12	9	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1166.6	1166.6	1166.6	1166.6	1166.6
2.5°	1153.7	1165.3	1157.5	1158.8	1160.1
5°	1122.5	1138.1	1139.4	1149.8	1160.1
7.5°	1077.2	1096.6	1110.9	1135.5	1152.4
10°	1022.7	1046.1	1073.3	1113.5	1138.1
12.5°	964.4	991.6	1029.2	1086.2	1121.2
15°	900.9	930.7	980.0	1053.8	1097.9
17.5°	833.5	867.2	926.8	1015.0	1070.7
20°	764.8	801.1	869.8	970.9	1039.6
22.5°	696.1	733.7	810.1	922.9	1005.9
25°	624.8	665.0	747.9	873.7	968.3
27.5°	552.2	593.7	685.7	823.1	928.1
30°	479.6	523.7	622.2	771.3	884.0
32.5°	408.3	452.4	560.0	719.4	841.3
35°	335.7	382.4	496.5	666.3	797.2
37.5°	263.1	313.7	434.2	611.8	751.8
40°	194.4	242.4	370.7	558.7	706.4
42.5°	129.6	176.3	313.7	505.5	659.8
45°	70.0	111.5	250.2	452.4	613.1
47.5°	37.6	59.6	195.7	400.5	567.8
50°	29.8	33.7	142.6	352.6	525.0
52.5°	24.6	27.2	93.3	307.2	475.7
55°	19.4	22.0	54.4	260.5	425.2
57.5°	15.6	18.1	35.0	216.5	375.9
60°	11.7	14.3	33.7	173.7	321.5
62.5°	9.1	10.4	31.1	133.5	264.4
65°	6.5	7.8	29.8	93.3	211.3
67.5°	5.2	6.5	27.2	59.6	158.1
70°	5.2	5.2	22.0	38.9	107.6
72.5°	5.2	9.1	19.4	25.9	64.8
75°	5.2	11.7	16.9	18.1	25.9
77.5°	5.2	13.0	14.3	14.3	14.3
80°	5.2	11.7	13.0	13.0	11.7
82.5°	5.2	10.4	11.7	13.0	10.4
85°	3.9	10.4	13.0	11.7	9.1
87.5°	3.9	10.4	11.7	10.4	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)