

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: P1175417

Luminaire Tested: S125RDR-H375D940-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175417
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-82)
Test Lab: INNOVATION CENTER
Issue Date: 8/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-H375D940-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

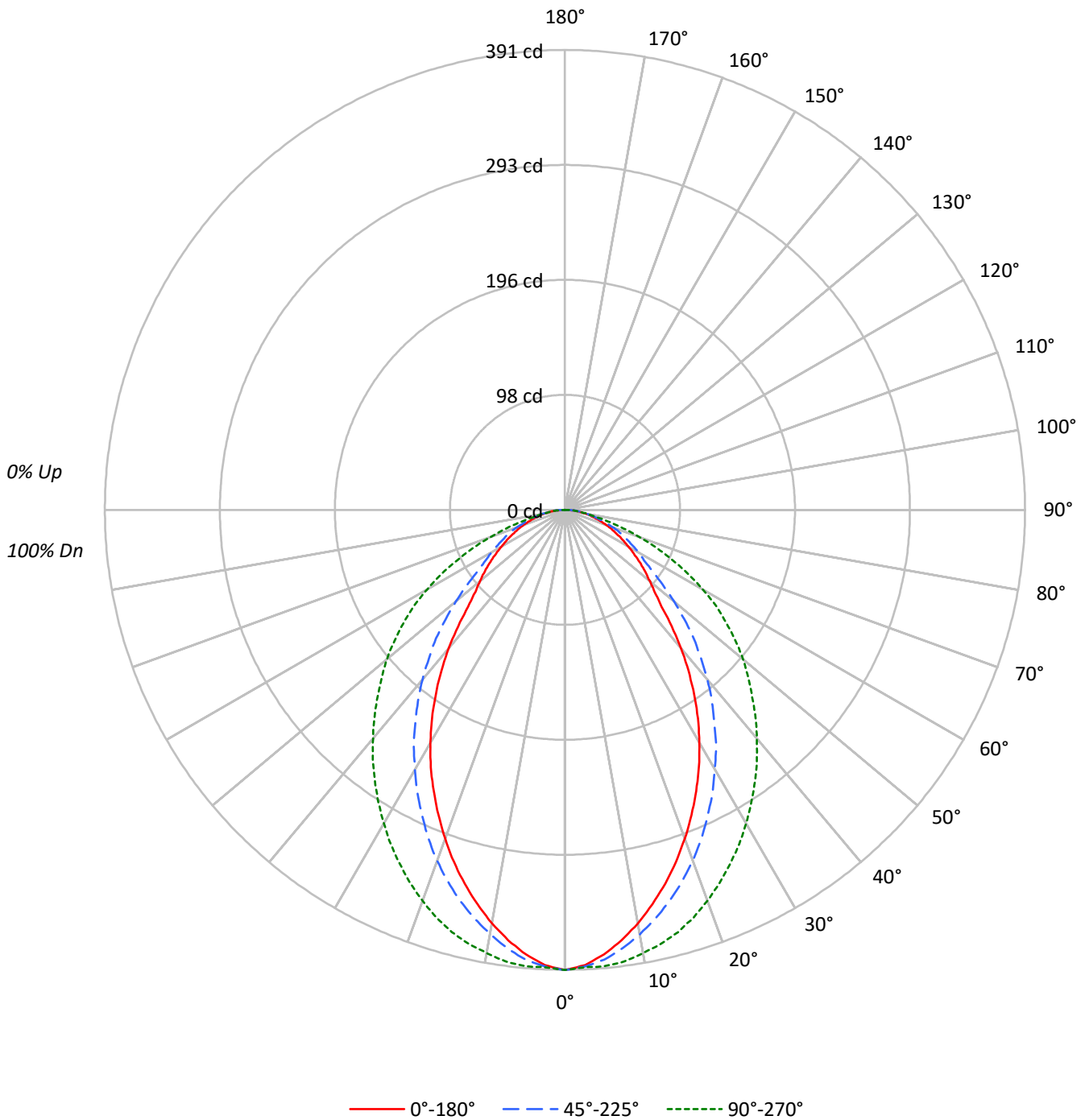
Lumens per Lamp: N/A
Luminaire Lumens: 737.0 lumens
Efficiency: N/A
Efficacy: 63.0 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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	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	107	104	100	97	99	97	94	96	93	91	92	90	88	86																				
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74																				
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64																				
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56																				
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50																				
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44																				
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40																				
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36																				
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33																				
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2694	2694	2694
5°	2624	2653	2692
10°	2496	2561	2675
15°	2346	2452	2649
20°	2181	2326	2592
25°	2003	2180	2523
30°	1817	2025	2447
35°	1608	1862	2367
40°	1379	1692	2280
45°	1131	1507	2193
50°	1007	1295	2117
55°	929	1084	2009
60°	855	987	1862
65°	795	930	1645
70°	743	870	1343
75°	697	803	1008
80°	658	737	726
85°	600	735	600

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2193 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.2	4.9
10°-20°	97.6	13.2
20°-30°	134.3	18.2
30°-40°	142.4	19.3
40°-50°	124.7	16.9
50°-60°	95.7	13.0
60°-70°	63.7	8.6
70°-80°	32.7	4.4
80°-90°	9.7	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°	268.1	36.4
0°-40°	410.6	55.7
0°-60°	630.9	85.6
0°-90°	737.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	737.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	391	391	391	391	391	
5°	380	385	384	387	390	36
15°	329	337	344	360	372	92
25°	264	273	287	311	332	121
35°	191	200	222	254	282	119
45°	116	126	155	193	225	92
55°	77	79	90	134	167	69
65°	49	49	57	75	101	49
75°	26	28	30	32	38	28
85°	8	9	9	9	8	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	391.2	391.2	391.2	391.2	391.2
2.5°	387.5	391.5	388.5	388.9	389.2
5°	379.6	384.6	383.9	386.6	389.5
7.5°	369.0	374.3	375.9	382.6	387.2
10°	357.0	363.0	366.3	376.3	382.6
12.5°	343.4	350.4	355.7	368.6	377.9
15°	329.1	336.7	344.0	360.3	371.6
17.5°	313.8	321.5	331.1	349.7	363.3
20°	297.6	305.9	317.5	337.4	353.7
22.5°	280.9	289.6	302.9	324.8	343.4
25°	263.7	272.6	286.9	311.2	332.1
27.5°	246.7	255.0	271.6	297.6	320.5
30°	228.5	237.1	254.7	283.3	307.8
32.5°	210.2	218.8	239.1	269.0	294.9
35°	191.3	200.2	221.5	254.0	281.6
37.5°	172.4	181.7	205.2	238.8	268.0
40°	153.4	163.4	188.3	223.5	253.7
42.5°	134.2	144.8	171.0	208.6	239.8
45°	116.2	125.9	154.8	193.3	225.2
47.5°	103.3	108.9	137.5	177.7	211.2
50°	94.0	96.6	120.9	162.7	197.6
52.5°	85.7	87.3	104.6	148.8	182.6
55°	77.4	79.0	90.3	134.2	167.4
57.5°	69.4	70.4	79.7	119.6	152.1
60°	62.1	62.8	71.7	104.9	135.2
62.5°	55.5	55.8	64.1	90.0	118.2
65°	48.8	49.1	57.1	75.1	101.0
67.5°	42.8	42.8	50.5	61.4	84.4
70°	36.9	36.9	43.2	49.8	66.7
72.5°	31.5	32.2	36.5	40.2	52.1
75°	26.2	27.9	30.2	31.9	37.9
77.5°	21.3	23.2	24.2	24.9	25.2
80°	16.6	17.9	18.6	18.9	18.3
82.5°	12.3	13.3	13.6	13.6	12.6
85°	7.6	8.6	9.3	9.0	7.6
87.5°	3.7	5.0	5.3	4.6	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)