

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: P1061628

Luminaire Tested: S125RDR-S375D850-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061628
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S375D850-X4F0-XX-UDD-SVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

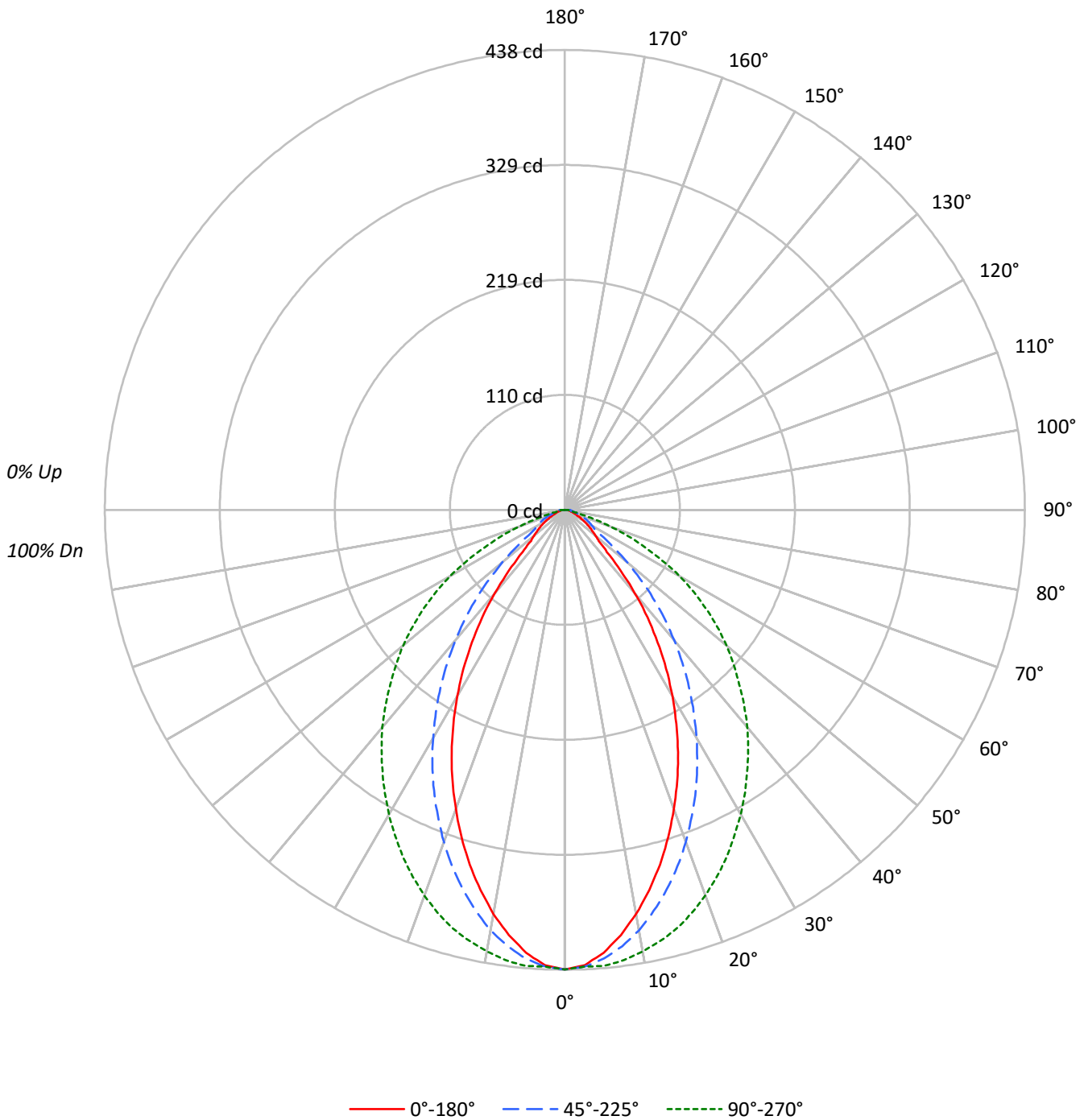
Lumens per Lamp: N/A
Luminaire Lumens: 634.1 lumens
Efficiency: N/A
Efficacy: 50.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89				89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79				79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70				70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62				62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56				56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51				51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46				46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42				42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	40	39				39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3014	3014	3014
5°	2926	2964	3013
10°	2732	2843	2985
15°	2493	2669	2941
20°	2222	2468	2863
25°	1936	2240	2771
30°	1627	1993	2663
35°	1294	1732	2545
40°	932	1455	2429
45°	553	1155	2287
50°	408	823	2153
55°	346	508	1971
60°	282	410	1736
65°	220	380	1372
70°	187	328	918
75°	173	285	372
80°	186	293	258
85°	221	442	292

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2287 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.3	6.4
10°-20°	106.0	16.7
20°-30°	138.5	21.8
30°-40°	134.9	21.3
40°-50°	101.2	16.0
50°-60°	63.4	10.0
60°-70°	33.0	5.2
70°-80°	11.9	1.9
80°-90°	4.7	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°	284.8	44.9
0°-40°	419.7	66.2
0°-60°	584.4	92.2
0°-90°	634.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	634.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	438	438	438	438	438	
5°	423	429	429	432	436	39
15°	350	360	374	398	413	98
25°	255	269	295	335	365	116
35°	154	170	206	261	303	96
45°	57	74	119	183	235	48
55°	29	30	42	111	164	26
65°	14	14	23	45	84	14
75°	6	9	11	11	14	7
85°	3	5	6	5	4	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	437.7	437.7	437.7	437.7	437.7
2.5°	434.0	438.2	435.4	435.4	435.4
5°	423.3	428.9	428.9	432.2	435.9
7.5°	408.4	414.9	419.1	427.0	432.6
10°	390.8	398.7	406.6	419.6	427.0
12.5°	370.8	380.1	391.2	409.4	420.5
15°	349.8	360.1	374.5	397.7	412.6
17.5°	327.0	339.1	356.3	384.2	402.4
20°	303.3	315.4	336.8	368.4	390.8
22.5°	279.6	292.6	315.9	351.7	378.2
25°	254.9	268.9	294.9	334.9	364.7
27.5°	229.8	244.2	273.1	317.7	349.8
30°	204.7	219.6	250.7	299.1	334.9
32.5°	179.6	195.4	228.4	280.0	319.1
35°	154.0	170.3	206.1	261.0	302.8
37.5°	129.3	145.6	183.8	241.4	286.6
40°	103.7	121.4	161.9	221.9	270.3
42.5°	78.6	96.8	140.0	202.4	252.6
45°	56.8	73.5	118.6	183.3	234.9
47.5°	43.7	53.0	96.8	163.7	217.7
50°	38.1	40.9	76.8	145.6	201.0
52.5°	33.0	34.9	57.7	128.9	182.8
55°	28.8	30.2	42.3	110.7	164.2
57.5°	24.2	26.1	33.5	93.0	145.1
60°	20.5	21.4	29.8	76.8	126.1
62.5°	16.7	17.7	26.5	60.5	104.7
65°	13.5	14.4	23.3	44.7	84.2
67.5°	11.2	11.6	19.5	31.6	64.7
70°	9.3	9.8	16.3	21.9	45.6
72.5°	7.9	9.3	13.0	15.8	28.8
75°	6.5	8.8	10.7	11.2	14.0
77.5°	5.6	8.4	8.8	8.8	7.9
80°	4.7	7.0	7.4	7.0	6.5
82.5°	3.7	5.6	6.0	6.0	5.1
85°	2.8	4.7	5.6	5.1	3.7
87.5°	1.9	4.2	4.7	4.2	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)