

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: P1061603

Luminaire Tested: S125RDR-S375D830-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061603
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S375D830-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

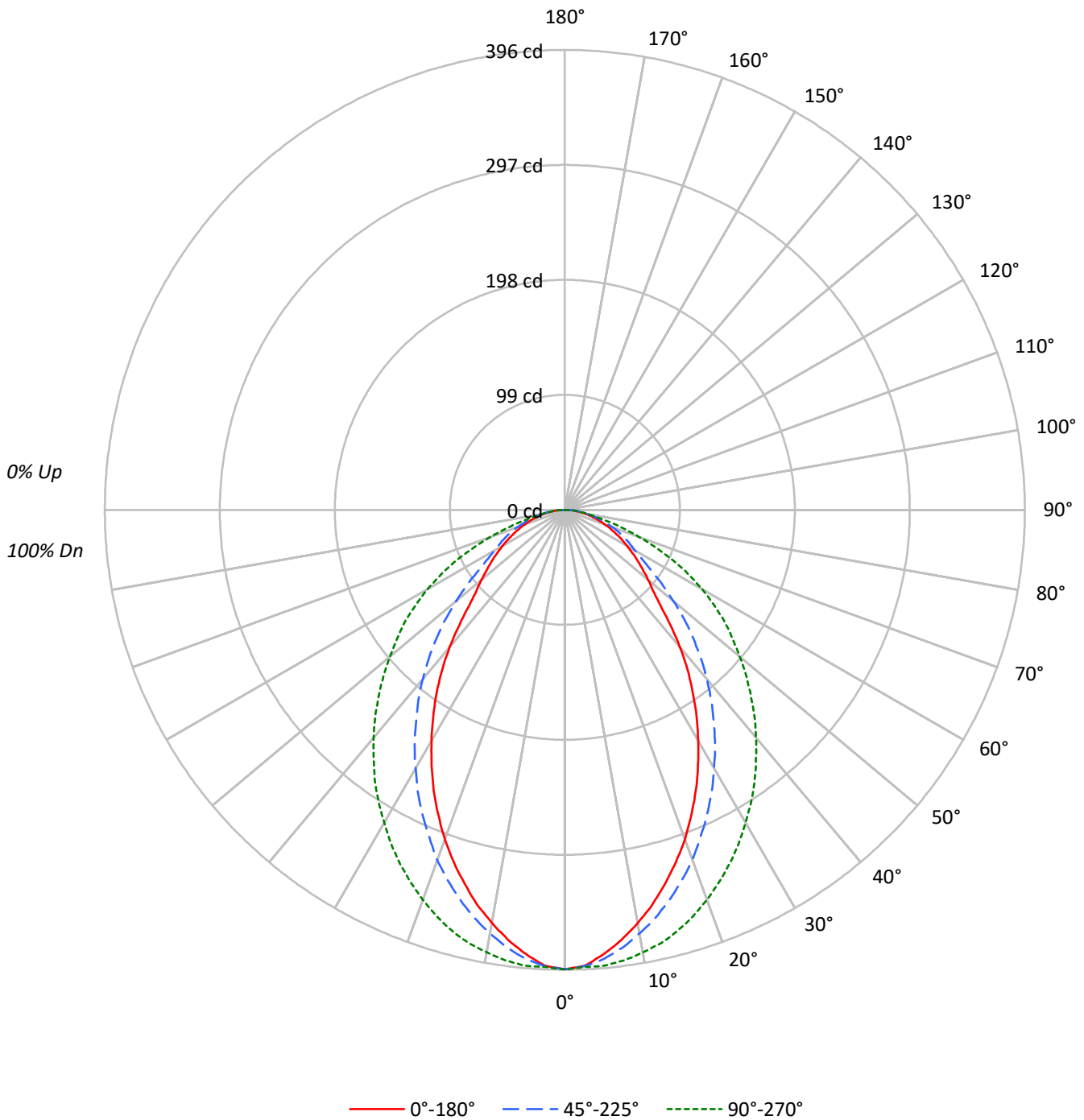
Lumens per Lamp: N/A
Luminaire Lumens: 741.6 lumens
Efficiency: N/A
Efficacy: 59.3 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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				
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	74	69	77	72	68	74	70	66	64				
4	86	75	67	61	84	74	67	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	48	59	52	47	58	52	47	56	51	46	44				
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40				
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36				
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33				
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2724	2724	2724
5°	2655	2682	2723
10°	2525	2589	2705
15°	2375	2479	2676
20°	2212	2351	2618
25°	2027	2201	2552
30°	1825	2042	2473
35°	1615	1877	2395
40°	1385	1709	2302
45°	1131	1520	2205
50°	1004	1304	2104
55°	921	1082	2017
60°	850	958	1877
65°	792	920	1675
70°	741	876	1369
75°	684	819	1008
80°	642	769	737
85°	592	750	624

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2205 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.6	4.9
10°-20°	98.6	13.3
20°-30°	135.5	18.3
30°-40°	143.6	19.4
40°-50°	125.4	16.9
50°-60°	95.3	12.8
60°-70°	63.8	8.6
70°-80°	32.9	4.4
80°-90°	9.9	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°	270.8	36.5
0°-40°	414.4	55.9
0°-60°	635.0	85.6
0°-90°	741.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	741.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	396	396	396	396	396	
5°	384	388	388	391	394	36
15°	333	340	348	363	375	93
25°	267	275	290	314	336	122
35°	192	203	223	255	285	120
45°	116	128	156	193	226	92
55°	77	79	90	132	168	69
65°	49	50	56	76	103	48
75°	26	27	31	33	38	28
85°	8	10	10	9	8	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	395.6	395.6	395.6	395.6	395.6
2.5°	392.8	395.6	393.2	393.2	394.0
5°	384.1	388.1	388.1	390.9	394.0
7.5°	373.5	377.8	380.2	386.5	391.3
10°	361.2	366.0	370.3	379.8	386.9
12.5°	348.2	353.3	360.0	372.3	382.2
15°	333.2	339.5	347.8	363.2	375.4
17.5°	318.1	324.5	334.7	352.9	366.8
20°	301.9	308.7	320.9	340.7	357.3
22.5°	284.5	292.1	305.1	327.6	347.0
25°	266.8	275.1	289.7	313.8	335.9
27.5°	248.2	258.1	273.9	299.6	324.1
30°	229.6	239.5	256.9	284.9	311.0
32.5°	211.0	221.7	240.7	270.3	298.4
35°	192.1	203.1	223.3	254.9	284.9
37.5°	173.5	184.6	207.1	239.9	270.3
40°	154.1	165.6	190.1	224.5	256.1
42.5°	134.4	146.6	173.1	208.7	241.5
45°	116.2	127.7	156.1	193.3	226.5
47.5°	102.8	110.3	139.1	177.4	211.8
50°	93.7	97.6	121.7	162.0	196.4
52.5°	84.6	87.7	105.5	146.2	181.8
55°	76.7	79.0	90.1	132.4	168.0
57.5°	68.8	71.1	78.3	118.6	151.8
60°	61.7	63.6	69.6	103.9	136.3
62.5°	54.9	56.5	62.8	90.1	119.7
65°	48.6	49.8	56.5	75.5	102.8
67.5°	42.3	43.5	50.2	61.7	84.6
70°	36.8	37.1	43.5	50.2	68.0
72.5°	31.2	31.6	36.8	40.7	52.2
75°	25.7	27.3	30.8	32.8	37.9
77.5°	20.9	22.9	24.9	25.7	25.7
80°	16.2	18.6	19.4	19.4	18.6
82.5°	11.9	13.8	14.2	13.4	12.6
85°	7.5	9.5	9.5	8.7	7.9
87.5°	3.6	5.1	5.1	4.7	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)