

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: P1061601

Luminaire Tested: S125RDR-S375D830-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061601
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-S375D830-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

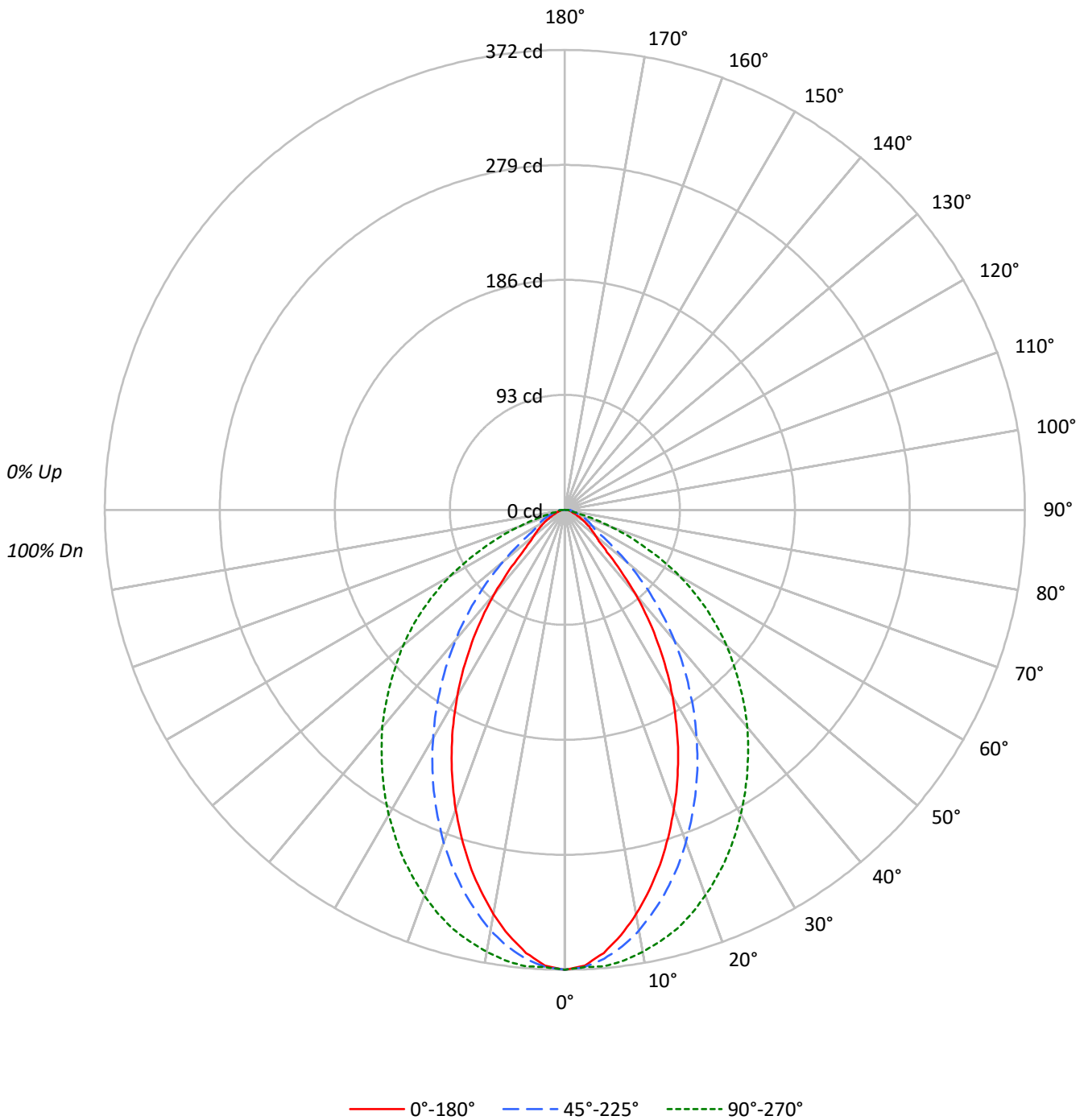
Lumens per Lamp: N/A
Luminaire Lumens: 538.9 lumens
Efficiency: N/A
Efficacy: 43.1 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	40	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2561	2561	2561
5°	2487	2519	2561
10°	2322	2416	2537
15°	2119	2269	2500
20°	1889	2097	2433
25°	1646	1905	2355
30°	1383	1694	2263
35°	1100	1472	2164
40°	793	1237	2065
45°	469	982	1945
50°	347	698	1830
55°	294	432	1676
60°	240	348	1475
65°	187	323	1166
70°	159	278	779
75°	146	242	317
80°	159	250	218
85°	190	371	253

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1945 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.3	6.4
10°-20°	90.1	16.7
20°-30°	117.7	21.8
30°-40°	114.7	21.3
40°-50°	86.0	16.0
50°-60°	53.9	10.0
60°-70°	28.1	5.2
70°-80°	10.1	1.9
80°-90°	4.0	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°	242.1	44.9
0°-40°	356.7	66.2
0°-60°	496.6	92.2
0°-90°	538.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	538.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	372	372	372	372	372	
5°	360	364	364	367	370	33
15°	297	306	318	338	351	83
25°	217	228	251	285	310	99
35°	131	145	175	222	257	81
45°	48	62	101	156	200	41
55°	24	26	36	94	140	22
65°	12	12	20	38	72	12
75°	6	8	9	10	12	6
85°	2	4	5	4	3	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	372.0	372.0	372.0	372.0	372.0
2.5°	368.9	372.4	370.1	370.1	370.1
5°	359.8	364.5	364.5	367.3	370.5
7.5°	347.1	352.7	356.2	362.9	367.7
10°	332.1	338.8	345.6	356.6	362.9
12.5°	315.1	323.0	332.5	347.9	357.4
15°	297.3	306.0	318.3	338.0	350.7
17.5°	277.9	288.2	302.9	326.6	342.0
20°	257.8	268.1	286.2	313.1	332.1
22.5°	237.6	248.7	268.5	298.9	321.4
25°	216.7	228.5	250.7	284.7	310.0
27.5°	195.3	207.6	232.1	270.0	297.3
30°	174.0	186.6	213.1	254.2	284.7
32.5°	152.6	166.1	194.1	238.0	271.2
35°	130.9	144.7	175.1	221.8	257.4
37.5°	109.9	123.7	156.2	205.2	243.5
40°	88.2	103.2	137.6	188.6	229.7
42.5°	66.8	82.2	119.0	172.0	214.7
45°	48.2	62.5	100.8	155.8	199.7
47.5°	37.2	45.1	82.2	139.2	185.0
50°	32.4	34.8	65.2	123.7	170.8
52.5°	28.1	29.7	49.0	109.5	155.4
55°	24.5	25.7	36.0	94.1	139.6
57.5°	20.6	22.1	28.5	79.1	123.4
60°	17.4	18.2	25.3	65.2	107.1
62.5°	14.2	15.0	22.5	51.4	89.0
65°	11.5	12.3	19.8	38.0	71.6
67.5°	9.5	9.9	16.6	26.9	55.0
70°	7.9	8.3	13.8	18.6	38.7
72.5°	6.7	7.9	11.1	13.4	24.5
75°	5.5	7.5	9.1	9.5	11.9
77.5°	4.7	7.1	7.5	7.5	6.7
80°	4.0	5.9	6.3	5.9	5.5
82.5°	3.2	4.7	5.1	5.1	4.3
85°	2.4	4.0	4.7	4.3	3.2
87.5°	1.6	3.6	4.0	3.6	2.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)