

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: P1061597

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061597
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-87)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S375D830-X4F0-XX-UDD-BVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

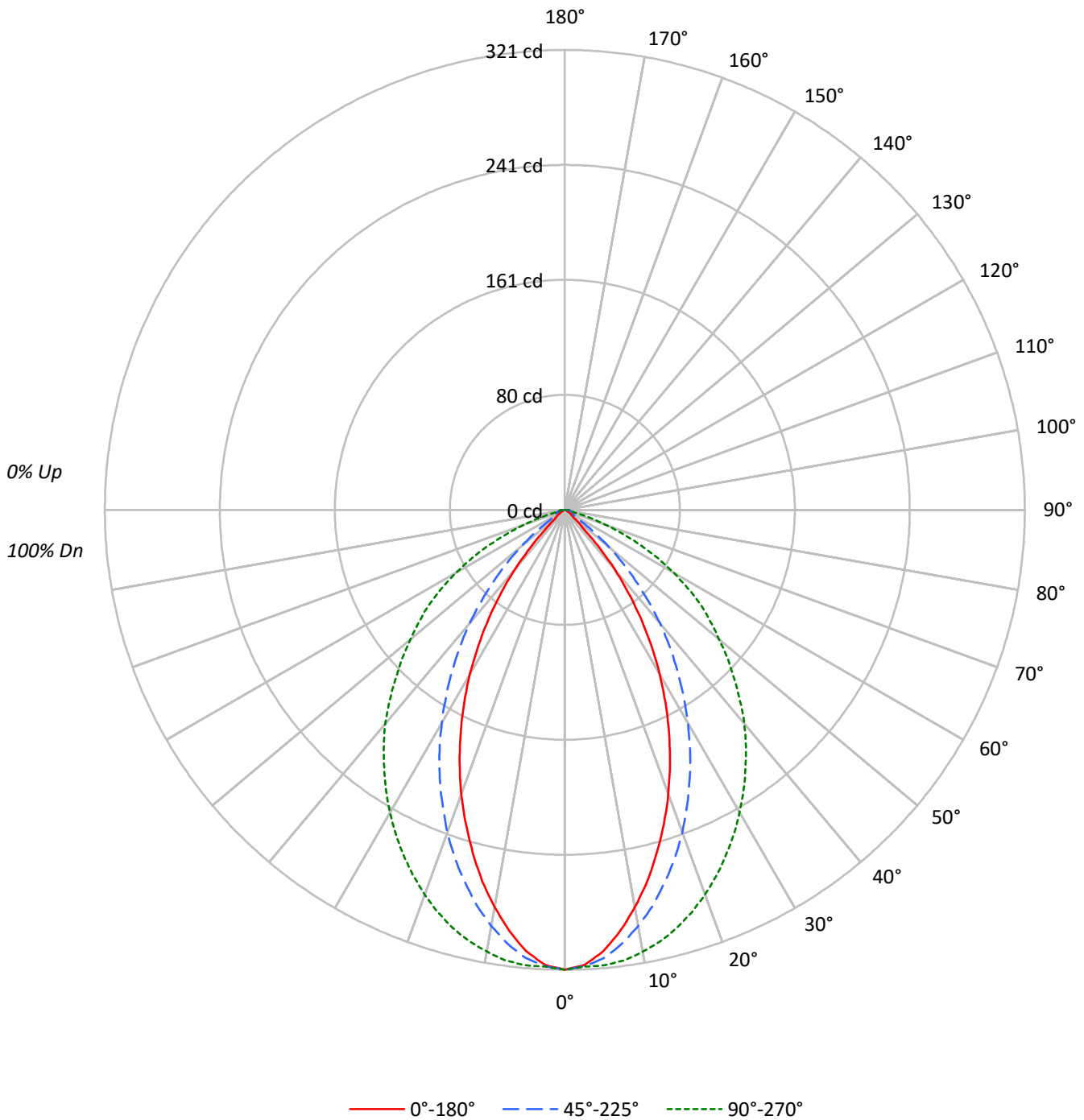
Lumens per Lamp: N/A
Luminaire Lumens: 412.9 lumens
Efficiency: N/A
Efficacy: 33.0 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81				81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72				72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65				65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59				59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54				54
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49				49
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45				45
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42				42
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39				39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2210	2210	2210
5°	2137	2170	2205
10°	1968	2062	2189
15°	1767	1919	2153
20°	1547	1756	2094
25°	1307	1568	2022
30°	1053	1364	1939
35°	774	1150	1847
40°	484	928	1752
45°	181	678	1628
50°	85	423	1504
55°	61	175	1390
60°	44	92	1204
65°	26	109	953
70°	24	127	604
75°	32	125	189
80°	48	159	143
85°	95	253	190

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1628 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.4	7.1
10°-20°	76.2	18.5
20°-30°	97.1	23.5
30°-40°	90.4	21.9
40°-50°	61.9	15.0
50°-60°	34.1	8.3
60°-70°	16.1	3.9
70°-80°	5.1	1.2
80°-90°	2.6	0.6
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°	202.7	49.1
0°-40°	293.1	71.0
0°-60°	389.1	94.2
0°-90°	412.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	412.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	321	321	321	321	321	
5°	309	313	314	316	319	29
15°	248	256	269	289	302	69
25°	172	183	206	240	266	79
35°	92	105	137	182	220	57
45°	19	31	70	123	167	18
55°	5	6	15	69	116	5
65°	2	2	7	25	58	2
75°	1	2	5	5	7	1
85°	1	3	3	3	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	321.0	321.0	321.0	321.0	321.0
2.5°	317.9	321.0	318.7	318.7	319.1
5°	309.2	313.1	313.9	316.3	319.1
7.5°	296.5	301.7	305.6	312.3	317.1
10°	281.5	287.8	294.9	306.0	313.1
12.5°	265.7	272.4	283.1	298.5	308.4
15°	247.9	255.8	269.2	289.4	302.1
17.5°	229.7	238.4	255.0	278.7	294.5
20°	211.1	220.2	239.6	266.1	285.8
22.5°	191.8	201.6	223.0	253.0	276.4
25°	172.0	182.7	206.4	239.6	266.1
27.5°	152.2	163.3	189.4	225.8	255.4
30°	132.4	143.9	171.6	211.5	243.9
32.5°	112.3	124.9	154.2	197.3	232.1
35°	92.1	105.2	136.8	181.9	219.8
37.5°	72.4	85.8	119.8	167.2	207.6
40°	53.8	67.2	103.2	152.6	194.9
42.5°	34.8	49.0	85.8	137.6	181.1
45°	18.6	31.2	69.6	123.4	167.2
47.5°	9.9	16.6	54.2	109.1	154.2
50°	7.9	9.1	39.5	94.9	140.4
52.5°	6.3	7.1	25.3	80.3	128.1
55°	5.1	5.9	14.6	68.8	115.8
57.5°	4.0	4.7	8.3	57.3	101.6
60°	3.2	3.6	6.7	45.9	87.4
62.5°	2.0	2.8	6.7	35.6	73.1
65°	1.6	2.0	6.7	25.3	58.5
67.5°	1.6	1.6	6.7	16.6	43.9
70°	1.2	1.2	6.3	10.7	30.0
72.5°	1.2	1.2	5.5	7.1	17.4
75°	1.2	2.0	4.7	5.1	7.1
77.5°	1.2	3.2	4.3	4.3	4.0
80°	1.2	3.2	4.0	3.6	3.6
82.5°	1.2	3.2	3.2	3.2	2.8
85°	1.2	2.8	3.2	2.8	2.4
87.5°	1.2	2.8	2.8	2.8	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)