

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: P1061679

Luminaire Tested: S125RDR-S610D830-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061679
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-84)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S610D830-X4F0-XX-UDD-BVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

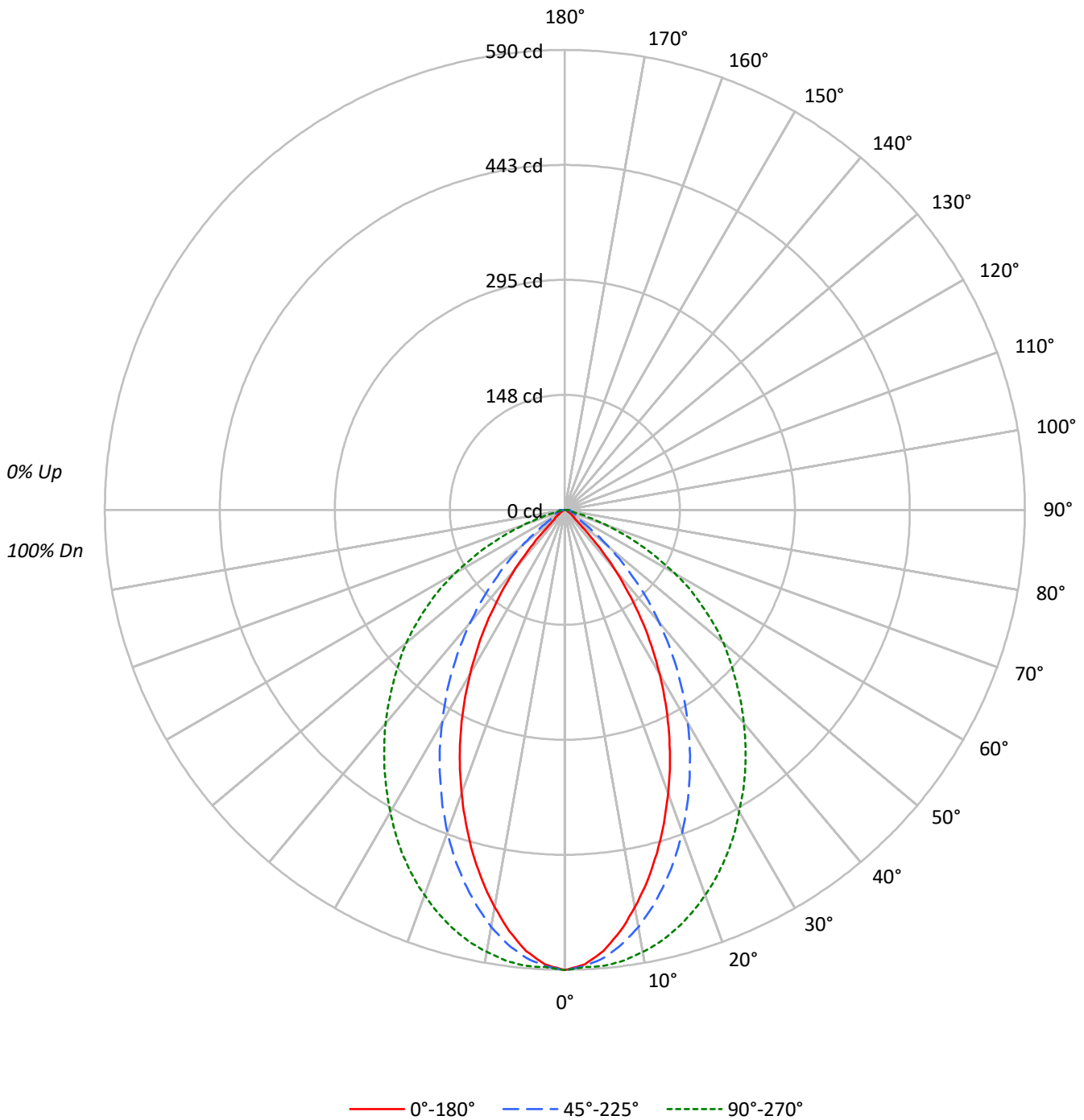
Lumens per Lamp: N/A
Luminaire Lumens: 763.9 lumens
Efficiency: N/A
Efficacy: 39.0 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
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									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	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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																												
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80																												
3	98	89	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72																												
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65																												
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59																												
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53																												
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49																												
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45																												
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41																												
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4065	4065	4065
5°	3926	3986	4058
10°	3619	3798	4027
15°	3250	3536	3961
20°	2836	3225	3856
25°	2402	2875	3723
30°	1930	2504	3557
35°	1428	2112	3392
40°	884	1686	3213
45°	345	1233	3021
50°	162	773	2846
55°	118	331	2583
60°	81	235	2240
65°	54	246	1742
70°	52	225	1097
75°	69	226	348
80°	103	262	234
85°	158	521	363

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3021 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.1	7.1
10°-20°	140.3	18.4
20°-30°	178.7	23.4
30°-40°	166.3	21.8
40°-50°	114.5	15.0
50°-60°	64.8	8.5
60°-70°	30.6	4.0
70°-80°	9.6	1.3
80°-90°	5.0	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°	373.1	48.8
0°-40°	539.5	70.6
0°-60°	718.8	94.1
0°-90°	763.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	763.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	590	590	590	590	590	
5°	568	576	577	582	587	53
15°	456	471	496	533	556	127
25°	316	337	378	442	490	144
35°	170	194	251	337	404	105
45°	35	56	127	229	310	33
55°	10	11	28	132	215	9
65°	3	4	15	47	107	4
75°	3	6	8	9	13	3
85°	2	5	7	6	5	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	590.4	590.4	590.4	590.4	590.4
2.5°	583.9	589.8	585.9	586.5	587.2
5°	568.1	576.0	576.7	581.9	587.2
7.5°	545.2	555.0	562.2	574.7	583.2
10°	517.6	529.4	543.2	563.6	576.0
12.5°	488.1	501.9	520.9	549.8	567.5
15°	456.0	471.0	496.0	533.4	555.7
17.5°	421.8	438.9	469.1	513.7	541.9
20°	387.1	405.4	440.2	491.4	526.2
22.5°	352.3	371.3	410.0	467.1	509.1
25°	316.2	336.6	378.5	442.2	490.1
27.5°	279.5	300.5	347.1	416.6	469.7
30°	242.7	265.0	314.9	390.4	447.4
32.5°	206.7	229.0	283.4	364.1	425.8
35°	169.9	193.5	251.3	337.2	403.5
37.5°	133.2	158.8	219.8	309.7	380.5
40°	98.4	122.7	187.6	282.8	357.5
42.5°	65.6	89.2	158.8	255.9	333.9
45°	35.4	56.4	126.6	229.0	310.3
47.5°	19.0	30.2	99.1	202.7	287.4
50°	15.1	17.1	72.2	178.4	265.7
52.5°	12.5	13.8	47.2	155.5	240.8
55°	9.8	11.2	27.6	131.9	215.2
57.5°	7.9	9.2	17.7	109.6	190.3
60°	5.9	7.2	17.1	87.9	162.7
62.5°	4.6	5.2	15.7	67.6	133.8
65°	3.3	3.9	15.1	47.2	106.9
67.5°	2.6	3.3	13.8	30.2	80.0
70°	2.6	2.6	11.2	19.7	54.5
72.5°	2.6	4.6	9.8	13.1	32.8
75°	2.6	5.9	8.5	9.2	13.1
77.5°	2.6	6.6	7.2	7.2	7.2
80°	2.6	5.9	6.6	6.6	5.9
82.5°	2.6	5.2	5.9	6.6	5.2
85°	2.0	5.2	6.6	5.9	4.6
87.5°	2.0	5.2	5.9	5.2	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)