

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: P1061602

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061602
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-46)
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-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

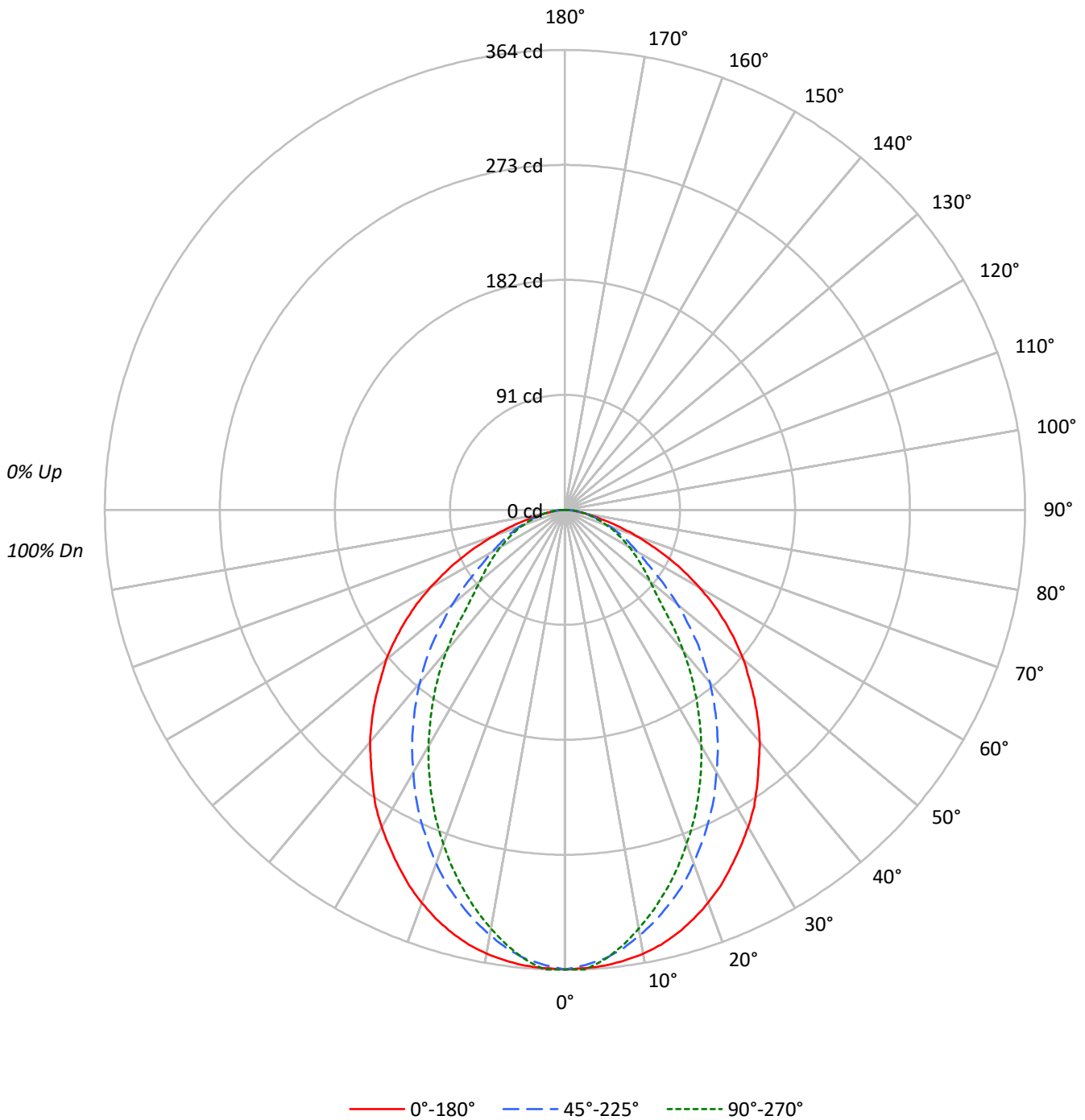
Lumens per Lamp: N/A
Luminaire Lumens: 689.2 lumens
Efficiency: N/A
Efficacy: 55.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	100	100	
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87	87	87	
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75	75	75	75	
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65	65	65	65	
4	86	75	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57	57	57	57	
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50	50	50	50	
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47	45	45	45	45	
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40	40	40	40	
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36	36	36	36	
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33	33	33	33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30	30	30	30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2505	2505	2505
5°	2503	2465	2471
10°	2494	2389	2353
15°	2469	2295	2216
20°	2425	2182	2061
25°	2365	2053	1897
30°	2305	1907	1715
35°	2228	1760	1521
40°	2155	1604	1310
45°	2065	1434	1073
50°	1976	1244	939
55°	1855	1038	868
60°	1692	909	811
65°	1481	831	753
70°	1200	747	701
75°	862	684	652
80°	595	611	611
85°	434	529	561

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2065 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.8	4.9
10°-20°	91.5	13.3
20°-30°	126.5	18.3
30°-40°	134.7	19.5
40°-50°	118.3	17.2
50°-60°	89.7	13.0
60°-70°	58.3	8.5
70°-80°	28.9	4.2
80°-90°	7.6	1.1
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°	251.8	36.5
0°-40°	386.5	56.1
0°-60°	594.5	86.3
0°-90°	689.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	689.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	364	364	364	364	364	
5°	362	361	357	358	358	34
15°	346	338	322	314	311	98
25°	311	294	270	256	250	143
35°	265	241	209	190	181	166
45°	212	182	147	121	110	164
55°	154	124	86	75	72	138
65°	91	68	51	47	46	90
75°	32	28	26	25	24	36
85°	6	6	7	7	7	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	363.8	363.8	363.8	363.8	363.8
2.5°	363.0	363.8	360.7	363.4	364.2
5°	362.2	361.4	356.7	357.9	357.5
7.5°	359.9	358.3	350.4	349.6	348.0
10°	356.7	352.8	341.7	338.9	336.6
12.5°	352.4	346.0	332.6	327.1	324.3
15°	346.4	338.5	321.9	314.4	310.9
17.5°	339.3	328.3	310.9	300.6	296.7
20°	331.0	318.0	297.8	286.0	281.3
22.5°	321.9	306.5	284.0	271.4	266.2
25°	311.3	294.3	270.2	256.4	249.7
27.5°	300.6	281.6	255.6	240.2	233.1
30°	289.9	268.2	239.8	223.2	215.7
32.5°	278.5	254.4	225.2	207.0	198.3
35°	265.1	240.6	209.4	190.4	180.9
37.5°	252.0	226.0	194.0	172.6	163.5
40°	239.8	212.1	178.5	155.2	145.8
42.5°	226.0	197.5	163.1	138.7	128.0
45°	212.1	182.5	147.3	120.9	110.2
47.5°	197.5	168.3	130.8	104.7	97.6
50°	184.5	153.7	116.1	92.4	87.7
52.5°	169.5	139.4	101.1	83.0	79.8
55°	154.5	124.0	86.5	74.7	72.3
57.5°	139.0	110.2	75.1	67.5	65.2
60°	122.9	96.0	66.0	60.0	58.9
62.5°	106.7	81.4	58.1	53.7	52.1
65°	90.9	67.5	51.0	47.0	46.2
67.5°	74.7	54.9	43.8	41.1	40.7
70°	59.6	44.6	37.1	35.6	34.8
72.5°	45.8	35.6	31.2	30.0	29.6
75°	32.4	28.4	25.7	24.9	24.5
77.5°	21.7	21.7	20.5	19.8	20.1
80°	15.0	15.8	15.4	15.4	15.4
82.5°	9.9	10.7	11.1	11.1	11.1
85°	5.5	6.3	6.7	6.7	7.1
87.5°	2.0	2.4	2.8	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)