

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: P1061606

Luminaire Tested: S125RDR-S375D835-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061606
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-S375D835-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

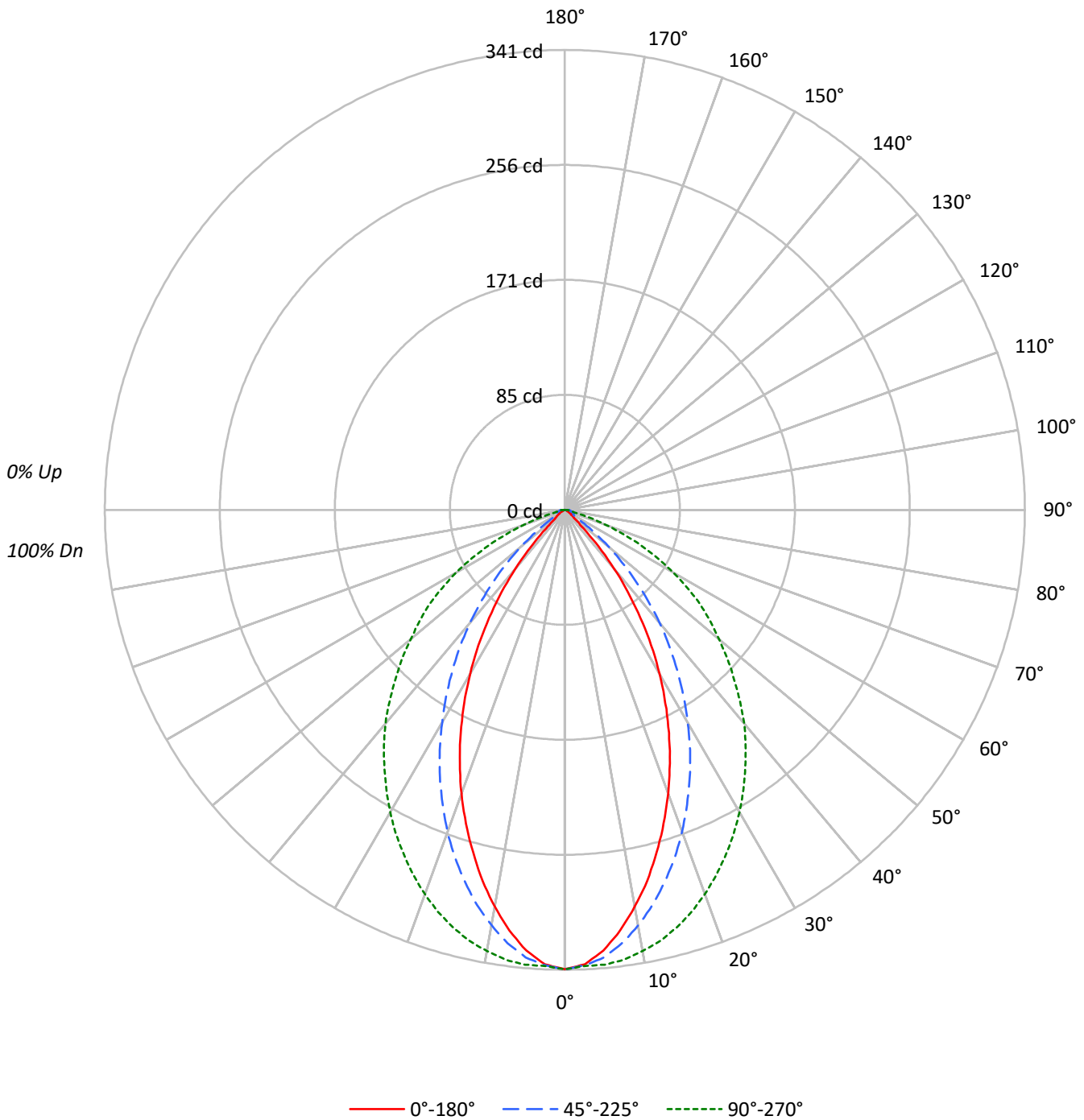
Lumens per Lamp: N/A
Luminaire Lumens: 438.1 lumens
Efficiency: N/A
Efficacy: 35.0 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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				
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81				
3	98	90	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	68	74	70	67	65				
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59				
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54				
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49				
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45				
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42				
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2345	2345	2345
5°	2267	2302	2340
10°	2088	2188	2323
15°	1875	2037	2285
20°	1641	1863	2222
25°	1386	1664	2145
30°	1117	1447	2058
35°	821	1220	1960
40°	512	984	1859
45°	192	719	1727
50°	90	449	1595
55°	66	186	1475
60°	47	98	1277
65°	28	116	1012
70°	26	135	642
75°	35	133	202
80°	52	167	151
85°	103	269	197

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1727 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.2	7.1
10°-20°	80.9	18.5
20°-30°	103.0	23.5
30°-40°	95.9	21.9
40°-50°	65.7	15.0
50°-60°	36.2	8.3
60°-70°	17.1	3.9
70°-80°	5.4	1.2
80°-90°	2.8	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°	215.1	49.1
0°-40°	311.0	71.0
0°-60°	412.8	94.2
0°-90°	438.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	438.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	341	341	341	341	341	
5°	328	332	333	336	338	30
15°	263	271	286	307	320	73
25°	182	194	219	254	282	83
35°	98	112	145	193	233	61
45°	20	33	74	131	177	19
55°	6	6	16	73	123	5
65°	2	2	7	27	62	2
75°	1	2	5	6	8	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°	340.6	340.6	340.6	340.6	340.6
2.5°	337.3	340.6	338.1	338.1	338.5
5°	328.0	332.2	333.1	335.6	338.5
7.5°	314.6	320.1	324.2	331.4	336.4
10°	298.7	305.4	312.9	324.7	332.2
12.5°	281.9	289.0	300.3	316.7	327.2
15°	263.0	271.4	285.7	307.1	320.5
17.5°	243.7	252.9	270.6	295.7	312.5
20°	224.0	233.6	254.2	282.3	303.3
22.5°	203.4	213.9	236.6	268.5	293.2
25°	182.5	193.8	219.0	254.2	282.3
27.5°	161.5	173.2	200.9	239.5	271.0
30°	140.5	152.7	182.0	224.4	258.8
32.5°	119.1	132.6	163.6	209.3	246.2
35°	97.7	111.6	145.1	193.0	233.2
37.5°	76.8	91.0	127.1	177.4	220.2
40°	57.0	71.3	109.5	161.9	206.8
42.5°	36.9	52.0	91.0	146.0	192.1
45°	19.7	33.1	73.8	130.9	177.4
47.5°	10.5	17.6	57.5	115.8	163.6
50°	8.4	9.6	41.9	100.7	148.9
52.5°	6.7	7.6	26.8	85.2	135.9
55°	5.5	6.3	15.5	73.0	122.9
57.5°	4.2	5.0	8.8	60.8	107.8
60°	3.4	3.8	7.1	48.7	92.7
62.5°	2.1	2.9	7.1	37.8	77.6
65°	1.7	2.1	7.1	26.8	62.1
67.5°	1.7	1.7	7.1	17.6	46.6
70°	1.3	1.3	6.7	11.3	31.9
72.5°	1.3	1.3	5.9	7.6	18.5
75°	1.3	2.1	5.0	5.5	7.6
77.5°	1.3	3.4	4.6	4.6	4.2
80°	1.3	3.4	4.2	3.8	3.8
82.5°	1.3	3.4	3.4	3.4	2.9
85°	1.3	2.9	3.4	2.9	2.5
87.5°	1.3	2.9	2.9	2.9	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)