

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P1062056

Luminaire Tested: S125RDR-H375D935-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1062056
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-H375D935-X4F0-XX-UDD-BVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

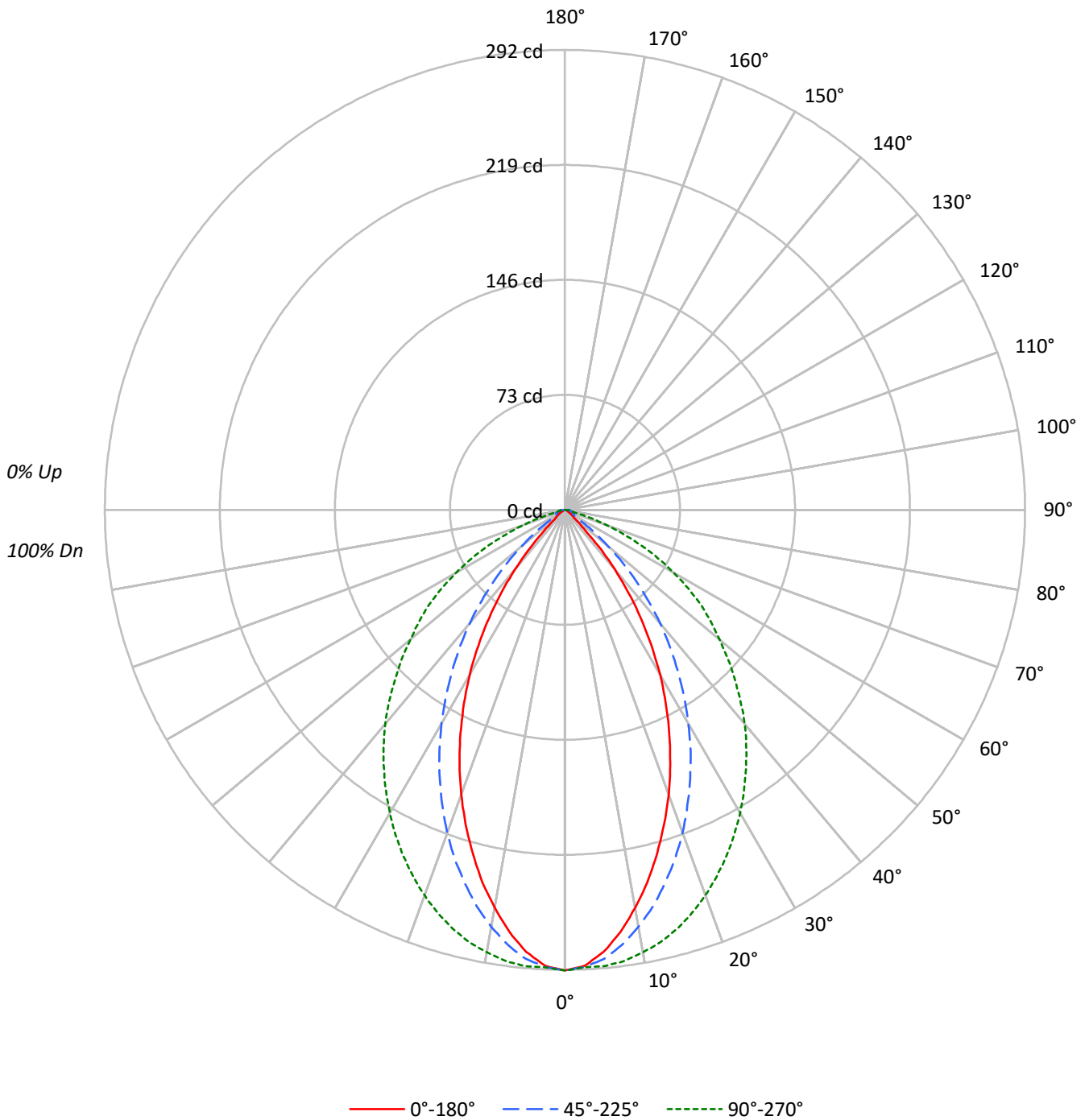
Lumens per Lamp: N/A
Luminaire Lumens: 376.3 lumens
Efficiency: N/A
Efficacy: 32.2 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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°	2014	2014	2014
5°	1947	1977	2009
10°	1793	1879	1995
15°	1610	1749	1962
20°	1410	1600	1909
25°	1190	1429	1842
30°	960	1243	1767
35°	705	1048	1684
40°	440	845	1596
45°	165	617	1484
50°	77	386	1370
55°	56	160	1268
60°	40	84	1096
65°	23	99	868
70°	22	117	552
75°	29	114	173
80°	44	143	127
85°	87	229	174

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1484 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.8	7.1
10°-20°	69.4	18.5
20°-30°	88.5	23.5
30°-40°	82.3	21.9
40°-50°	56.4	15.0
50°-60°	31.1	8.3
60°-70°	14.7	3.9
70°-80°	4.6	1.2
80°-90°	2.4	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°	184.7	49.1
0°-40°	267.1	71.0
0°-60°	354.6	94.2
0°-90°	376.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	376.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	292	292	292	292	292	
5°	282	285	286	288	291	26
15°	226	233	245	264	275	63
25°	157	166	188	218	242	72
35°	84	96	125	166	200	52
45°	17	28	63	112	152	16
55°	5	5	13	63	106	4
65°	1	2	6	23	53	2
75°	1	2	4	5	6	1
85°	1	2	3	2	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	292.5	292.5	292.5	292.5	292.5
2.5°	289.7	292.5	290.4	290.4	290.7
5°	281.7	285.3	286.1	288.2	290.7
7.5°	270.2	274.9	278.5	284.6	288.9
10°	256.5	262.3	268.8	278.9	285.3
12.5°	242.1	248.2	258.0	272.0	281.0
15°	225.9	233.1	245.3	263.7	275.3
17.5°	209.3	217.2	232.4	254.0	268.4
20°	192.4	200.7	218.3	242.5	260.5
22.5°	174.7	183.7	203.2	230.6	251.8
25°	156.7	166.4	188.1	218.3	242.5
27.5°	138.7	148.8	172.6	205.7	232.7
30°	120.7	131.1	156.4	192.7	222.3
32.5°	102.3	113.8	140.5	179.8	211.5
35°	83.9	95.8	124.7	165.7	200.3
37.5°	65.9	78.2	109.2	152.4	189.1
40°	49.0	61.2	94.0	139.1	177.6
42.5°	31.7	44.7	78.2	125.4	165.0
45°	16.9	28.5	63.4	112.4	152.4
47.5°	9.0	15.1	49.4	99.4	140.5
50°	7.2	8.3	36.0	86.5	127.9
52.5°	5.8	6.5	23.1	73.1	116.7
55°	4.7	5.4	13.3	62.7	105.6
57.5°	3.6	4.3	7.6	52.2	92.6
60°	2.9	3.2	6.1	41.8	79.6
62.5°	1.8	2.5	6.1	32.4	66.7
65°	1.4	1.8	6.1	23.1	53.3
67.5°	1.4	1.4	6.1	15.1	40.0
70°	1.1	1.1	5.8	9.7	27.4
72.5°	1.1	1.1	5.0	6.5	15.9
75°	1.1	1.8	4.3	4.7	6.5
77.5°	1.1	2.9	4.0	4.0	3.6
80°	1.1	2.9	3.6	3.2	3.2
82.5°	1.1	2.9	2.9	2.9	2.5
85°	1.1	2.5	2.9	2.5	2.2
87.5°	1.1	2.5	2.5	2.5	1.4
90°	0.0	0.0	0.0	0.0	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	0.00	0.00	0.00	0.00	0.00	11.47	12.76	11.84	13.07	13.39
	3H	0.00	0.00	0.00	0.00	0.00	12.26	13.40	12.64	13.73	14.09
	4H	0.00	0.00	0.00	0.00	0.00	12.29	13.35	12.69	13.70	14.08
	6H	0.00	0.00	0.00	0.00	0.00	12.24	13.22	12.66	13.59	13.98
	8H	0.00	0.00	0.00	0.00	0.00	12.22	13.14	12.65	13.53	13.94
	12H	0.00	0.00	0.00	0.00	0.00	12.20	13.08	12.64	13.46	13.89
4H	2H	0.00	0.00	0.00	0.00	0.00	11.26	12.32	11.66	12.67	13.05
	3H	0.00	0.00	0.00	0.00	0.00	12.09	12.95	12.50	13.35	13.76
	4H	0.00	0.00	0.00	0.00	0.00	12.12	12.89	12.56	13.31	13.76
	6H	0.00	0.00	0.00	0.00	0.00	12.11	12.77	12.57	13.22	13.69
	8H	0.00	0.00	0.00	0.06	0.53	12.09	12.71	12.56	13.16	13.63
	12H	0.00	0.29	0.23	0.77	1.25	12.09	12.64	12.58	13.12	13.60
8H	4H	0.00	0.00	0.00	0.00	0.30	12.01	12.63	12.48	13.07	13.55
	6H	0.53	1.04	1.03	1.53	2.02	12.01	12.51	12.51	13.01	13.49
	8H	1.49	1.95	2.02	2.46	2.95	12.01	12.47	12.54	12.98	13.48
	12H	2.42	2.82	2.94	3.32	3.89	12.06	12.46	12.58	12.96	13.53
12H	4H	0.00	0.00	0.00	0.10	0.57	11.97	12.51	12.45	13.00	13.47
	6H	0.99	1.44	1.51	1.96	2.45	11.96	12.42	12.49	12.93	13.43
	8H	2.13	2.53	2.64	3.03	3.60	12.00	12.40	12.52	12.90	13.47