

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: P1062038

Luminaire Tested: S125RDR-H375D927-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1062038
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-H375D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

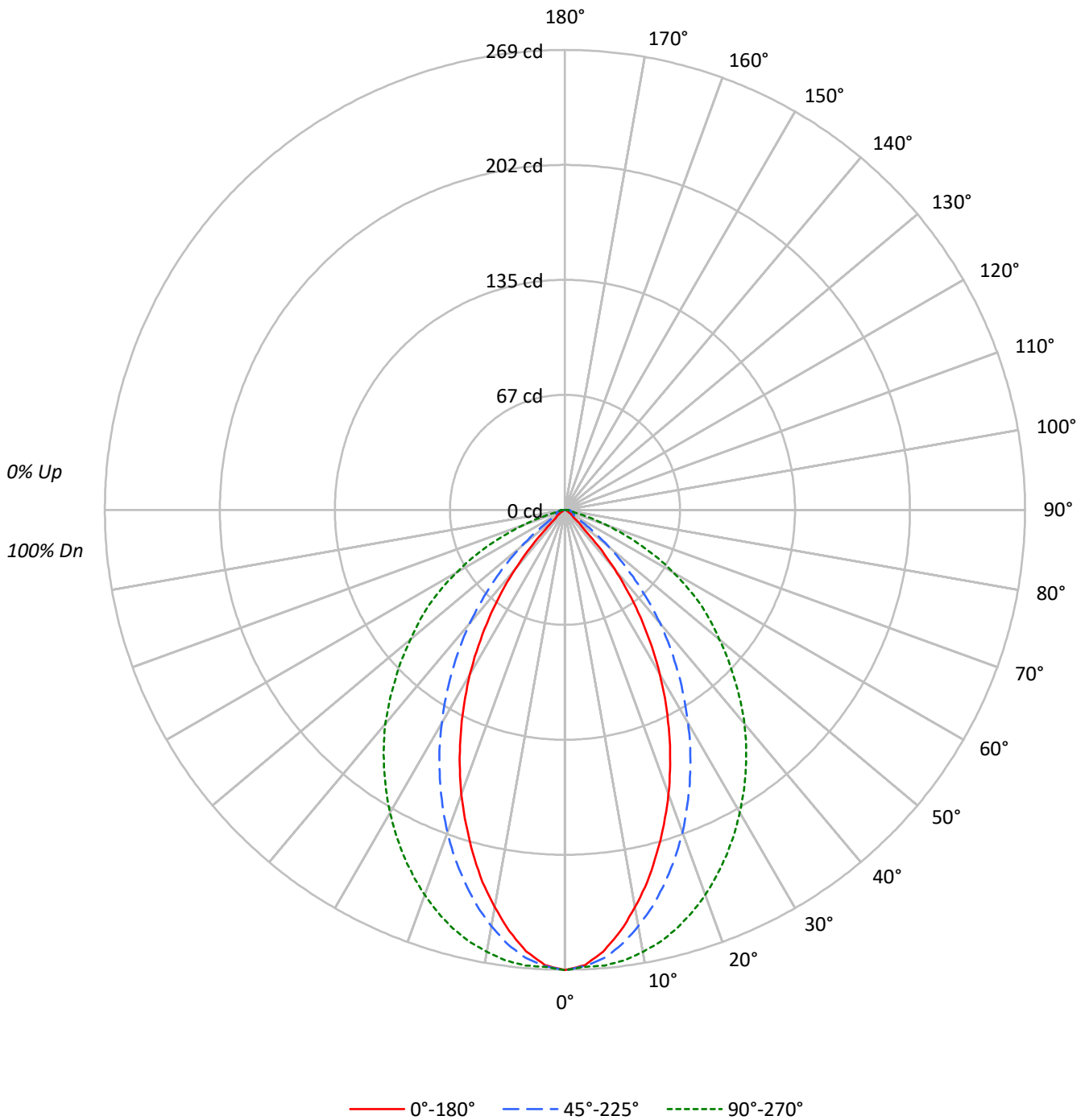
Lumens per Lamp: N/A
Luminaire Lumens: 346.2 lumens
Efficiency: N/A
Efficacy: 29.6 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1062038

CATALOG NUMBER: S125RDR-H375D927-X4F0-XX-UDD-BVL-S

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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°	1854	1854	1854
5°	1791	1819	1849
10°	1650	1729	1835
15°	1481	1609	1806
20°	1297	1472	1756
25°	1095	1314	1695
30°	882	1144	1626
35°	649	964	1549
40°	405	777	1469
45°	152	568	1365
50°	71	355	1261
55°	52	148	1166
60°	37	77	1009
65°	21	91	800
70°	20	107	507
75°	27	106	160
80°	40	131	119
85°	79	213	158

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1365 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.7	7.1
10°-20°	63.9	18.5
20°-30°	81.4	23.5
30°-40°	75.8	21.9
40°-50°	51.9	15.0
50°-60°	28.6	8.3
60°-70°	13.5	3.9
70°-80°	4.3	1.2
80°-90°	2.2	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°	170.0	49.1
0°-40°	245.7	71.0
0°-60°	326.2	94.2
0°-90°	346.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	346.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	269	269	269	269	269	
5°	259	262	263	265	268	24
15°	208	214	226	243	253	58
25°	144	153	173	201	223	66
35°	77	88	115	152	184	48
45°	16	26	58	103	140	15
55°	4	5	12	58	97	4
65°	1	2	6	21	49	2
75°	1	2	4	4	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°	269.2	269.2	269.2	269.2	269.2
2.5°	266.5	269.2	267.2	267.2	267.5
5°	259.2	262.5	263.2	265.2	267.5
7.5°	248.6	252.9	256.2	261.9	265.8
10°	236.0	241.3	247.3	256.6	262.5
12.5°	222.8	228.4	237.3	250.3	258.6
15°	207.8	214.5	225.7	242.6	253.3
17.5°	192.6	199.9	213.8	233.7	247.0
20°	177.0	184.6	200.9	223.1	239.7
22.5°	160.8	169.1	187.0	212.1	231.7
25°	144.2	153.1	173.0	200.9	223.1
27.5°	127.6	136.9	158.8	189.3	214.1
30°	111.0	120.7	143.9	177.3	204.5
32.5°	94.1	104.7	129.3	165.4	194.6
35°	77.2	88.2	114.7	152.5	184.3
37.5°	60.7	71.9	100.4	140.2	174.0
40°	45.1	56.4	86.5	128.0	163.4
42.5°	29.2	41.1	71.9	115.4	151.8
45°	15.6	26.2	58.3	103.4	140.2
47.5°	8.3	13.9	45.4	91.5	129.3
50°	6.6	7.6	33.1	79.6	117.7
52.5°	5.3	6.0	21.2	67.3	107.4
55°	4.3	5.0	12.3	57.7	97.1
57.5°	3.3	4.0	7.0	48.1	85.2
60°	2.7	3.0	5.6	38.5	73.3
62.5°	1.7	2.3	5.6	29.8	61.3
65°	1.3	1.7	5.6	21.2	49.1
67.5°	1.3	1.3	5.6	13.9	36.8
70°	1.0	1.0	5.3	8.9	25.2
72.5°	1.0	1.0	4.6	6.0	14.6
75°	1.0	1.7	4.0	4.3	6.0
77.5°	1.0	2.7	3.6	3.6	3.3
80°	1.0	2.7	3.3	3.0	3.0
82.5°	1.0	2.7	2.7	2.7	2.3
85°	1.0	2.3	2.7	2.3	2.0
87.5°	1.0	2.3	2.3	2.3	1.3
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	11.19	12.48	11.56	12.79	13.11
	3H	0.00	0.00	0.00	0.00	0.00	11.98	13.11	12.36	13.44	13.81
	4H	0.00	0.00	0.00	0.00	0.00	12.00	13.06	12.41	13.41	13.80
	6H	0.00	0.00	0.00	0.00	0.00	11.96	12.93	12.38	13.30	13.70
	8H	0.00	0.00	0.00	0.00	0.00	11.94	12.86	12.37	13.25	13.65
	12H	0.00	0.00	0.00	0.00	0.00	11.92	12.80	12.35	13.18	13.61
4H	2H	0.00	0.00	0.00	0.00	0.00	10.98	12.03	11.38	12.38	12.77
	3H	0.00	0.00	0.00	0.00	0.00	11.80	12.66	12.21	13.07	13.47
	4H	0.00	0.00	0.00	0.00	0.00	11.84	12.61	12.27	13.03	13.47
	6H	0.00	0.00	0.00	0.00	0.00	11.82	12.49	12.29	12.93	13.40
	8H	0.00	0.00	0.00	0.00	0.27	11.81	12.43	12.28	12.87	13.35
	12H	0.00	0.02	0.00	0.50	0.97	11.81	12.35	12.30	12.84	13.31
8H	4H	0.00	0.00	0.00	0.00	0.02	11.72	12.34	12.19	12.79	13.26
	6H	0.26	0.77	0.76	1.26	1.74	11.72	12.23	12.23	12.73	13.21
	8H	1.23	1.68	1.75	2.20	2.69	11.73	12.18	12.25	12.70	13.19
	12H	2.15	2.55	2.67	3.05	3.62	11.78	12.18	12.29	12.67	13.24
12H	4H	0.00	0.00	0.00	0.00	0.29	11.68	12.23	12.17	12.71	13.18
	6H	0.72	1.17	1.24	1.69	2.18	11.68	12.13	12.20	12.65	13.14
	8H	1.87	2.27	2.39	2.77	3.34	11.72	12.12	12.23	12.62	13.19