

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: P1061482

Luminaire Tested: S125RDR-S1090D930-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061482
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1090D930-X4F0-XX-UDD-SVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

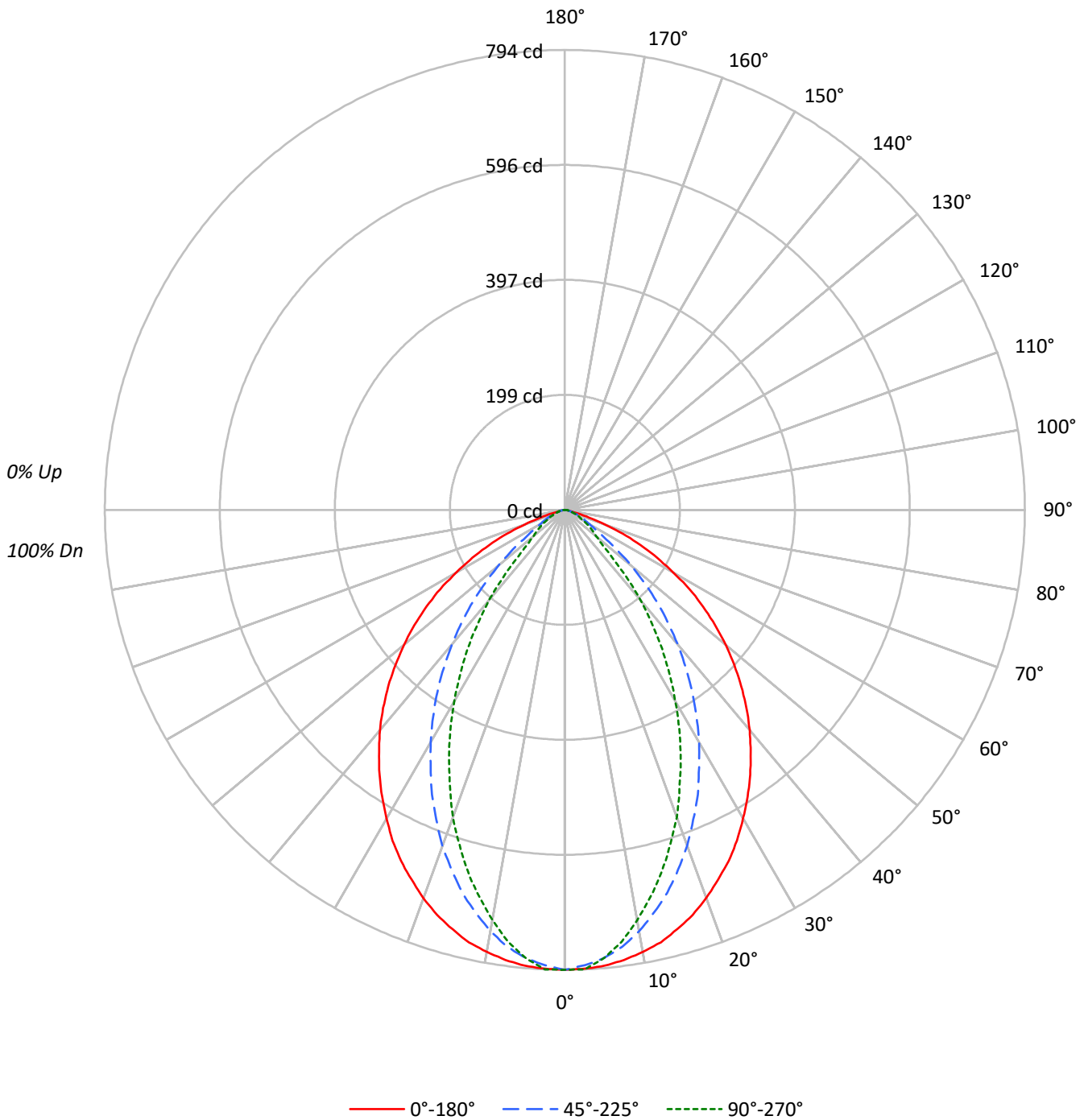
Lumens per Lamp: N/A
Luminaire Lumens: 1148.2 lumens
Efficiency: N/A
Efficacy: 32.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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	97	98	96	95	95	93	92	90				
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80				
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71				
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63				
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57				
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52				
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47				
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43				
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39				
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5467	5467	5467
5°	5459	5369	5369
10°	5417	5163	5029
15°	5343	4876	4610
20°	5226	4524	4140
25°	5082	4124	3594
30°	4893	3682	3031
35°	4689	3223	2459
40°	4462	2721	1823
45°	4195	2181	1100
50°	3880	1599	756
55°	3500	981	630
60°	2973	666	500
65°	2351	510	394
70°	1482	366	324
75°	484	269	269
80°	159	198	242
85°	79	158	158

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4195 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.4	6.4
10°-20°	193.9	16.9
20°-30°	255.1	22.2
30°-40°	250.6	21.8
40°-50°	189.6	16.5
50°-60°	115.0	10.0
60°-70°	54.3	4.7
70°-80°	14.2	1.2
80°-90°	2.1	0.2
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°	522.4	45.5
0°-40°	773.1	67.3
0°-60°	1077.7	93.9
0°-90°	1148.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1148.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	794	794	794	794	794	
5°	790	788	777	778	777	75
15°	750	729	684	658	647	211
25°	669	618	543	492	473	307
35°	558	483	383	316	293	348
45°	431	339	224	142	113	332
55°	292	200	82	56	52	260
65°	144	74	31	26	24	142
75°	18	12	10	10	10	28
85°	1	1	2	2	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	794.0	794.0	794.0	794.0	794.0
2.5°	793.0	793.0	786.9	794.0	794.0
5°	789.9	787.9	776.8	777.8	776.8
7.5°	783.9	779.8	760.7	755.6	751.6
10°	774.8	766.7	738.5	726.4	719.3
12.5°	764.7	750.6	712.2	695.1	684.0
15°	749.6	729.4	684.0	657.8	646.7
17.5°	733.4	704.2	650.7	619.4	605.3
20°	713.3	679.0	617.4	579.1	565.0
22.5°	691.1	650.7	579.1	536.7	517.5
25°	668.9	618.4	542.8	492.3	473.1
27.5°	643.6	586.1	501.4	448.9	427.8
30°	615.4	553.9	463.1	408.6	381.3
32.5°	587.1	520.6	422.7	363.2	335.9
35°	557.9	483.2	383.4	315.8	292.6
37.5°	526.6	447.9	343.0	272.4	245.1
40°	496.4	412.6	302.7	228.0	202.8
42.5°	464.1	377.3	262.3	184.6	156.4
45°	430.8	339.0	224.0	142.2	113.0
47.5°	396.5	304.7	185.6	104.9	84.7
50°	362.2	268.4	149.3	77.7	70.6
52.5°	326.9	233.0	113.0	64.6	61.5
55°	291.6	199.8	81.7	55.5	52.5
57.5°	255.2	163.4	61.5	47.4	44.4
60°	215.9	131.1	48.4	39.3	36.3
62.5°	179.6	102.9	39.3	32.3	30.3
65°	144.3	73.6	31.3	26.2	24.2
67.5°	107.9	49.4	24.2	20.2	20.2
70°	73.6	32.3	18.2	16.1	16.1
72.5°	44.4	19.2	13.1	13.1	13.1
75°	18.2	12.1	10.1	10.1	10.1
77.5°	6.1	7.1	7.1	8.1	8.1
80°	4.0	4.0	5.0	6.1	6.1
82.5°	2.0	3.0	3.0	4.0	4.0
85°	1.0	1.0	2.0	2.0	2.0
87.5°	0.0	0.0	0.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)