

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: P1061455

Luminaire Tested: S125RDR-S1090D840-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061455
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-S1090D840-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

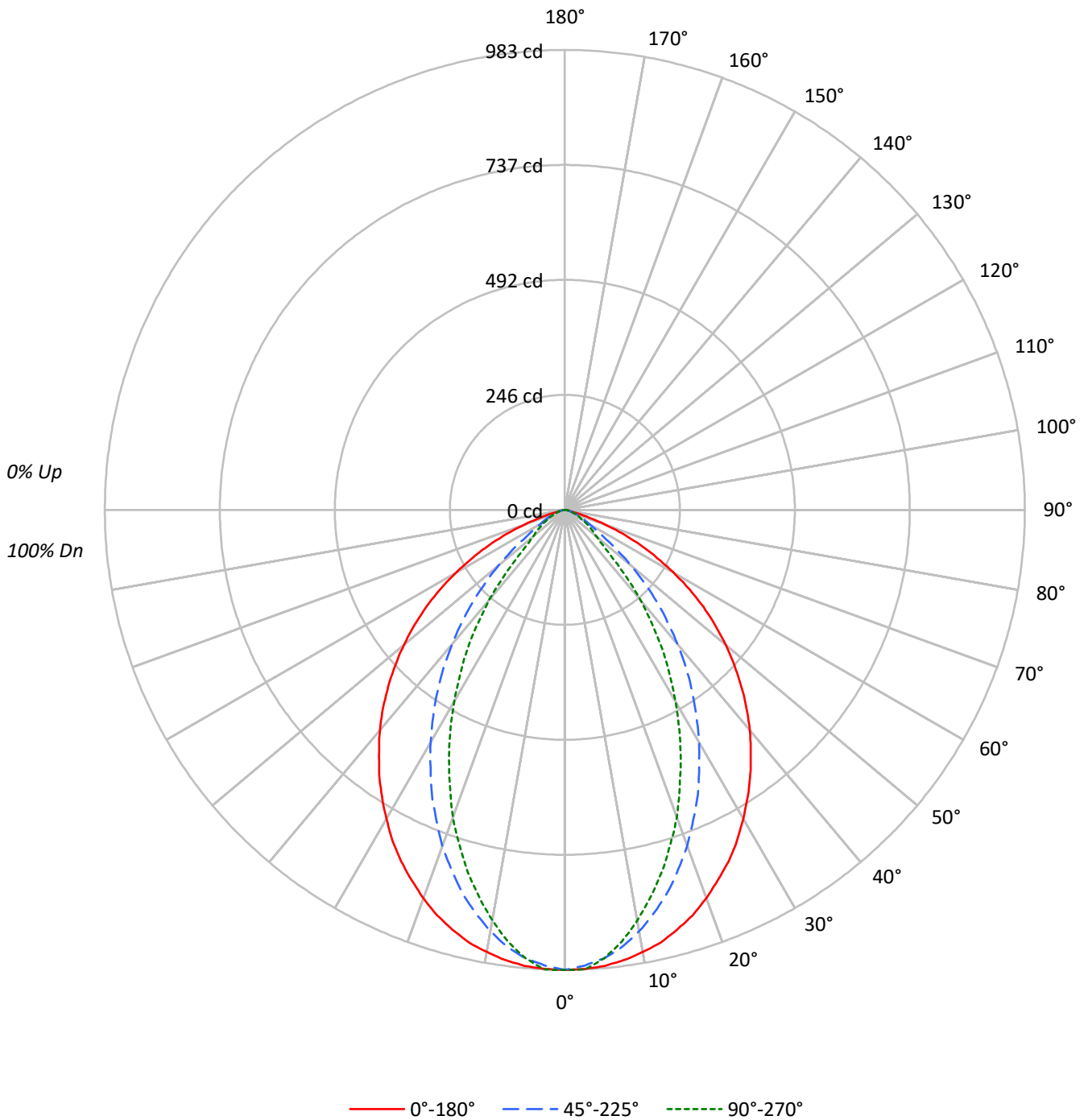
Lumens per Lamp: N/A
Luminaire Lumens: 1422.2 lumens
Efficiency: N/A
Efficacy: 40.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	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°	6771	6771	6771
5°	6762	6650	6650
10°	6710	6395	6229
15°	6618	6039	5710
20°	6474	5604	5128
25°	6294	5107	4453
30°	6061	4560	3755
35°	5808	3991	3046
40°	5526	3370	2258
45°	5196	2701	1363
50°	4805	1981	937
55°	4335	1215	780
60°	3682	826	620
65°	2911	630	489
70°	1836	453	403
75°	599	333	333
80°	198	246	297
85°	95	197	197

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5196 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.0	6.4
10°-20°	240.2	16.9
20°-30°	316.0	22.2
30°-40°	310.5	21.8
40°-50°	234.9	16.5
50°-60°	142.4	10.0
60°-70°	67.2	4.7
70°-80°	17.5	1.2
80°-90°	2.6	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°	647.1	45.5
0°-40°	957.6	67.3
0°-60°	1334.9	93.9
0°-90°	1422.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1422.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	983	983	983	983	983	
5°	978	976	962	963	962	93
15°	928	904	847	815	801	262
25°	828	766	672	610	586	381
35°	691	599	475	391	362	432
45°	534	420	277	176	140	411
55°	361	247	101	69	65	321
65°	179	91	39	32	30	176
75°	22	15	12	12	12	35
85°	1	1	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	983.4	983.4	983.4	983.4	983.4
2.5°	982.2	982.2	974.7	983.4	983.4
5°	978.4	975.9	962.2	963.4	962.2
7.5°	970.9	965.9	942.2	936.0	931.0
10°	959.7	949.7	914.7	899.7	891.0
12.5°	947.2	929.7	882.2	861.0	847.2
15°	928.5	903.5	847.2	814.7	801.0
17.5°	908.5	872.2	806.0	767.3	749.8
20°	883.5	841.0	764.8	717.3	699.8
22.5°	856.0	806.0	717.3	664.8	641.0
25°	828.5	766.0	672.3	609.8	586.1
27.5°	797.2	726.0	621.1	556.1	529.8
30°	762.3	686.0	573.6	506.1	472.3
32.5°	727.3	644.8	523.6	449.9	416.1
35°	691.0	598.6	474.8	391.1	362.4
37.5°	652.3	554.8	424.9	337.4	303.7
40°	614.8	511.1	374.9	282.4	251.2
42.5°	574.8	467.4	324.9	228.7	193.7
45°	533.6	419.9	277.4	176.2	140.0
47.5°	491.1	377.4	229.9	130.0	105.0
50°	448.6	332.4	184.9	96.2	87.5
52.5°	404.9	288.7	140.0	80.0	76.2
55°	361.1	247.4	101.2	68.7	65.0
57.5°	316.1	202.4	76.2	58.7	55.0
60°	267.4	162.4	60.0	48.7	45.0
62.5°	222.4	127.5	48.7	40.0	37.5
65°	178.7	91.2	38.7	32.5	30.0
67.5°	133.7	61.2	30.0	25.0	25.0
70°	91.2	40.0	22.5	20.0	20.0
72.5°	55.0	23.7	16.2	16.2	16.2
75°	22.5	15.0	12.5	12.5	12.5
77.5°	7.5	8.7	8.7	10.0	10.0
80°	5.0	5.0	6.2	7.5	7.5
82.5°	2.5	3.7	3.7	5.0	5.0
85°	1.2	1.2	2.5	2.5	2.5
87.5°	0.0	0.0	0.0	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)