

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: P1061623

Luminaire Tested: S125RDR-S375D850-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061623
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-48)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S375D850-X4F0-XX-UDD-BVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

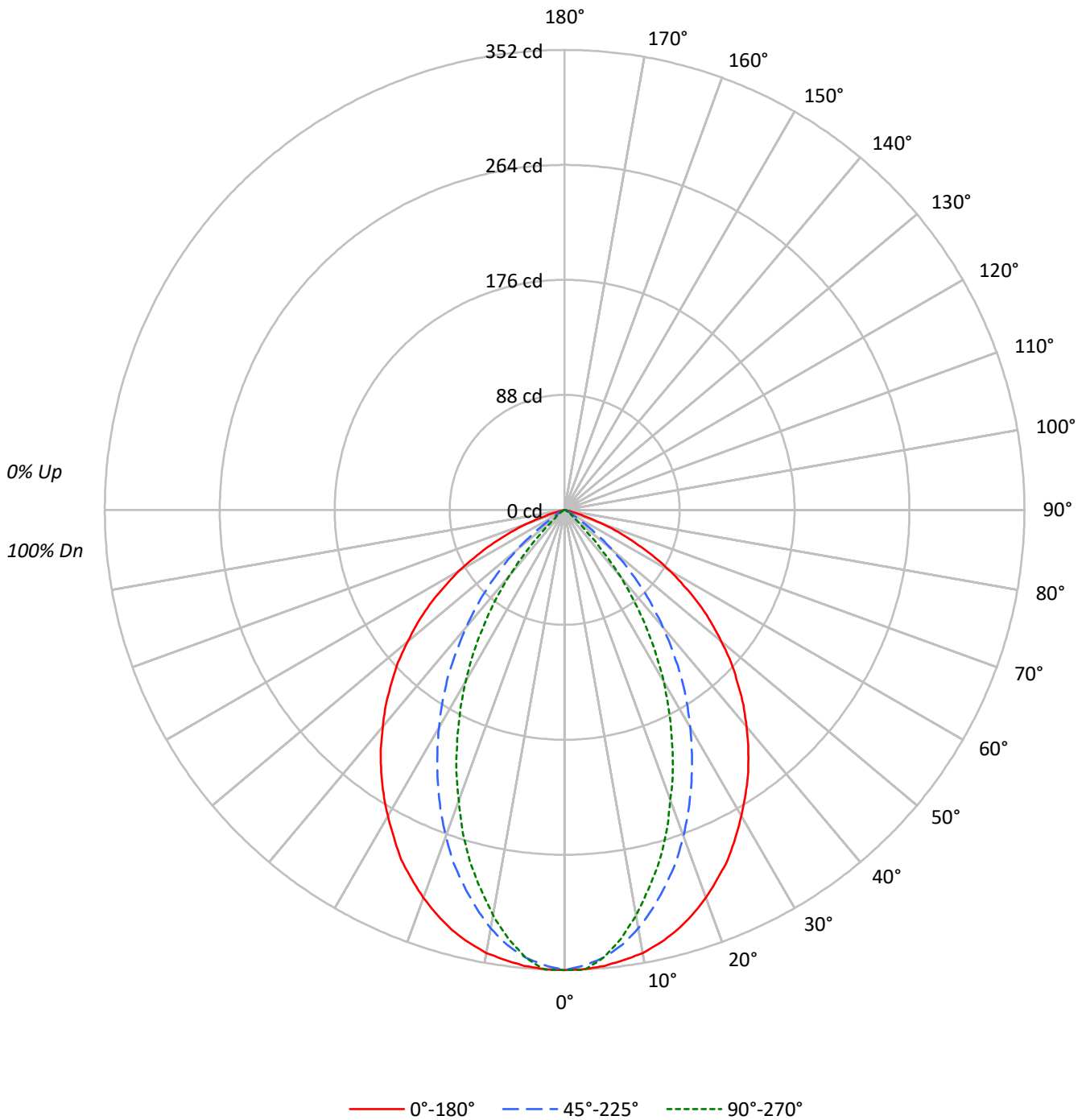
Lumens per Lamp: N/A
Luminaire Lumens: 455.1 lumens
Efficiency: N/A
Efficacy: 36.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	62	57	67	61	57	66	61	57	65	60	56	54
7	76	65	58	53	74	64	57	52	63	56	52	61	56	52	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2426	2426	2426
5°	2422	2377	2377
10°	2408	2274	2203
15°	2372	2123	1991
20°	2315	1948	1734
25°	2246	1744	1476
30°	2151	1530	1204
35°	2058	1305	903
40°	1947	1052	585
45°	1824	797	253
50°	1677	508	94
55°	1513	223	67
60°	1281	96	45
65°	969	60	23
70°	590	28	10
75°	122	13	13
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1824 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.5	7.1
10°-20°	84.7	18.6
20°-30°	108.7	23.9
30°-40°	102.3	22.5
40°-50°	71.5	15.7
50°-60°	38.2	8.4
60°-70°	15.2	3.3
70°-80°	2.0	0.4
80°-90°	0.0	0.0
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°	225.8	49.6
0°-40°	328.1	72.1
0°-60°	437.9	96.2
0°-90°	455.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	455.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	352	352	352	352	352	
5°	350	350	344	345	344	33
15°	333	322	298	284	279	94
25°	296	270	230	204	194	136
35°	245	206	155	120	107	153
45°	187	140	82	40	26	144
55°	126	77	19	6	6	112
65°	60	24	4	2	1	59
75°	5	1	0	0	0	9
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	352.3	352.3	352.3	352.3	352.3
2.5°	351.8	352.3	349.0	351.8	352.3
5°	350.4	349.5	343.9	344.9	343.9
7.5°	347.6	345.3	336.0	332.8	330.9
10°	344.4	339.3	325.3	318.4	315.1
12.5°	339.3	331.8	312.3	301.6	297.0
15°	332.8	322.1	297.9	284.0	279.3
17.5°	324.9	310.9	283.0	265.8	258.9
20°	316.0	297.4	265.8	245.4	236.6
22.5°	305.8	284.4	248.2	225.4	216.6
25°	295.6	269.6	229.6	204.5	194.3
27.5°	283.0	254.2	211.0	184.0	172.9
30°	270.5	238.9	192.4	163.1	151.5
32.5°	257.9	222.6	173.8	141.3	129.7
35°	244.9	205.9	155.2	119.9	107.4
37.5°	231.0	189.2	135.2	99.5	86.4
40°	216.6	172.9	117.1	79.5	65.1
42.5°	202.6	156.6	99.0	60.0	44.2
45°	187.3	140.4	81.8	39.5	26.0
47.5°	172.9	124.6	64.1	22.8	13.5
50°	156.6	108.3	47.4	12.1	8.8
52.5°	141.3	92.5	31.6	7.9	7.0
55°	126.0	77.2	18.6	6.5	5.6
57.5°	108.3	62.3	10.2	5.1	4.2
60°	93.0	48.8	7.0	3.7	3.3
62.5°	75.3	35.8	5.1	2.8	2.3
65°	59.5	23.7	3.7	1.9	1.4
67.5°	44.2	13.9	2.3	0.9	0.9
70°	29.3	7.4	1.4	0.5	0.5
72.5°	15.3	3.3	0.9	0.5	0.5
75°	4.6	1.4	0.5	0.5	0.5
77.5°	0.0	0.5	0.0	0.0	0.5
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)