

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: P1062055

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1062055
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-H375D935-X4F0-XX-UDD-BVL-B
Description: DEFINE 5 BLACK 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

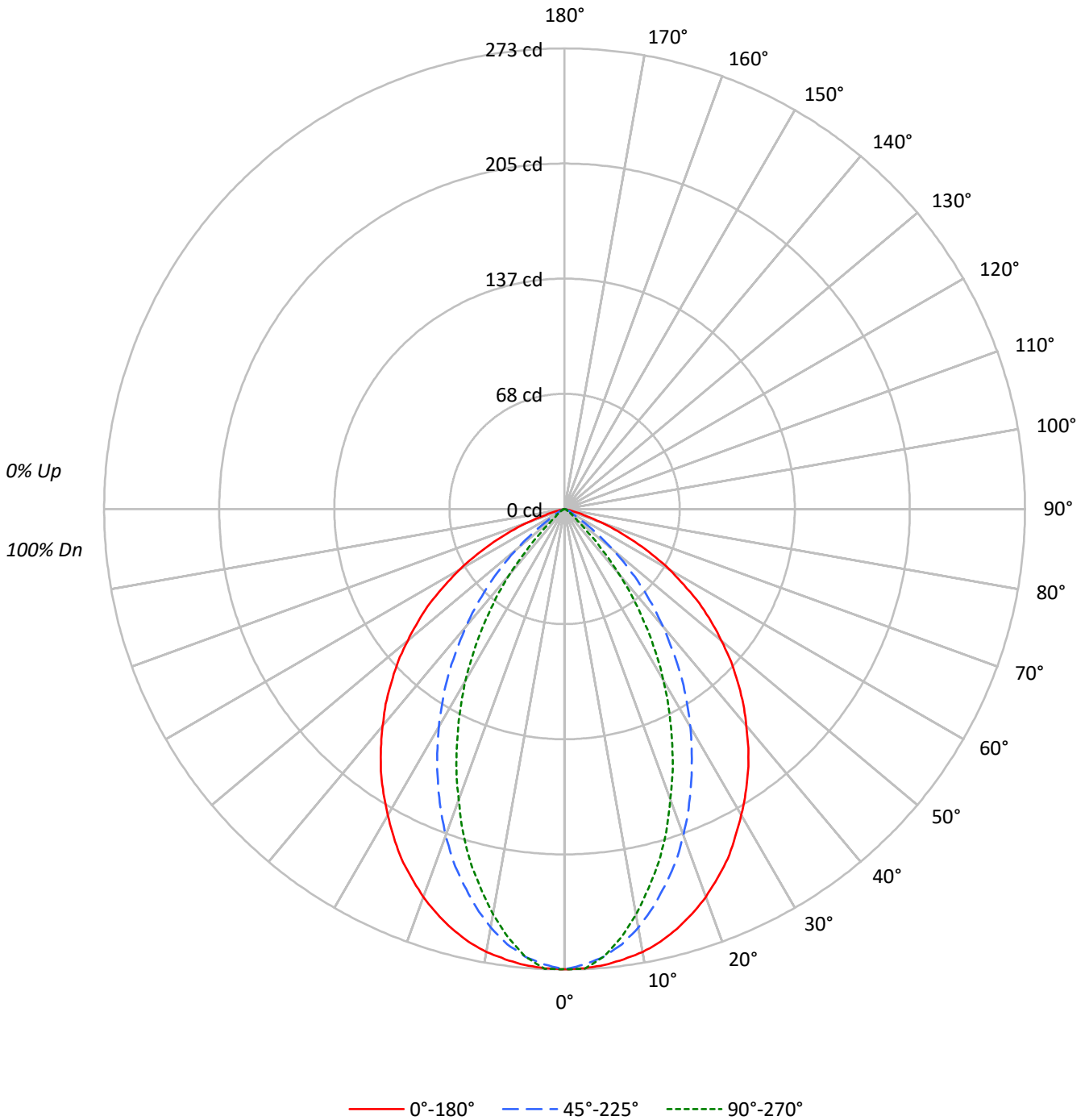
Lumens per Lamp: N/A
Luminaire Lumens: 352.5 lumens
Efficiency: N/A
Efficacy: 30.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	1878	1878	1878
5°	1876	1841	1841
10°	1865	1762	1706
15°	1837	1644	1542
20°	1794	1509	1342
25°	1739	1351	1143
30°	1666	1185	933
35°	1594	1010	698
40°	1507	815	453
45°	1413	617	197
50°	1299	393	73
55°	1170	173	52
60°	991	74	34
65°	751	47	18
70°	457	22	8
75°	96	11	11
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1413 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.1	7.1
10°-20°	65.6	18.6
20°-30°	84.2	23.9
30°-40°	79.2	22.5
40°-50°	55.4	15.7
50°-60°	29.6	8.4
60°-70°	11.8	3.4
70°-80°	1.5	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°	174.9	49.6
0°-40°	254.1	72.1
0°-60°	339.1	96.2
0°-90°	352.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	352.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	273	273	273	273	273	
5°	271	271	266	267	266	26
15°	258	249	231	220	216	73
25°	229	209	178	158	150	105
35°	190	160	120	93	83	118
45°	145	109	63	31	20	112
55°	98	60	14	5	4	86
65°	46	18	3	1	1	46
75°	4	1	0	0	0	7
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°	272.8	272.8	272.8	272.8	272.8
2.5°	272.5	272.8	270.3	272.5	272.8
5°	271.4	270.7	266.4	267.1	266.4
7.5°	269.2	267.4	260.2	257.7	256.3
10°	266.7	262.8	252.0	246.6	244.0
12.5°	262.8	257.0	241.9	233.6	230.0
15°	257.7	249.4	230.7	219.9	216.3
17.5°	251.6	240.8	219.2	205.9	200.5
20°	244.8	230.4	205.9	190.1	183.2
22.5°	236.8	220.3	192.2	174.6	167.7
25°	228.9	208.8	177.8	158.4	150.5
27.5°	219.2	196.9	163.4	142.5	133.9
30°	209.5	185.0	149.0	126.3	117.3
32.5°	199.8	172.4	134.6	109.4	100.4
35°	189.7	159.5	120.2	92.9	83.1
37.5°	178.9	146.5	104.7	77.0	67.0
40°	167.7	133.9	90.7	61.6	50.4
42.5°	156.9	121.3	76.7	46.4	34.2
45°	145.1	108.7	63.4	30.6	20.2
47.5°	133.9	96.5	49.7	17.6	10.4
50°	121.3	83.9	36.7	9.4	6.8
52.5°	109.4	71.6	24.5	6.1	5.4
55°	97.5	59.8	14.4	5.0	4.3
57.5°	83.9	48.2	7.9	4.0	3.2
60°	72.0	37.8	5.4	2.9	2.5
62.5°	58.3	27.7	4.0	2.2	1.8
65°	46.1	18.4	2.9	1.4	1.1
67.5°	34.2	10.8	1.8	0.7	0.7
70°	22.7	5.8	1.1	0.4	0.4
72.5°	11.9	2.5	0.7	0.4	0.4
75°	3.6	1.1	0.4	0.4	0.4
77.5°	0.0	0.4	0.0	0.0	0.4
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



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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	11.13	12.40	11.50	12.71	13.02	0.00	0.00	0.00	0.00	0.00
	3H	11.72	12.83	12.10	13.16	13.53	0.00	0.00	0.00	0.00	0.00
	4H	11.68	12.71	12.09	13.07	13.45	0.00	0.00	0.00	0.00	0.00
	6H	11.60	12.54	12.01	12.91	13.31	0.00	0.00	0.00	0.00	0.00
	8H	11.55	12.44	11.98	12.83	13.24	0.00	0.00	0.00	0.00	0.00
	12H	11.50	12.36	11.94	12.74	13.17	0.00	0.00	0.00	0.00	0.00
4H	2H	10.90	11.94	11.31	12.29	12.67	0.00	0.00	0.00	0.00	0.00
	3H	11.50	12.33	11.91	12.74	13.14	0.00	0.00	0.00	0.00	0.00
	4H	11.45	12.19	11.88	12.61	13.06	0.00	0.00	0.00	0.00	0.00
	6H	11.36	12.00	11.83	12.45	12.91	0.00	0.00	0.00	0.00	0.00
	8H	11.30	11.89	11.77	12.34	12.82	0.00	0.00	0.00	0.00	0.00
	12H	11.25	11.77	11.74	12.26	12.73	0.00	0.00	0.00	0.00	0.00
8H	4H	11.30	11.89	11.77	12.34	12.82	0.00	0.00	0.00	0.00	0.00
	6H	11.19	11.68	11.70	12.17	12.66	0.00	0.00	0.00	0.00	0.00
	8H	11.13	11.56	11.65	12.08	12.57	0.00	0.00	0.00	0.00	0.00
	12H	11.08	11.46	11.60	11.96	12.53	0.00	0.00	0.00	0.00	0.00
12H	4H	11.25	11.77	11.74	12.26	12.73	0.00	0.00	0.00	0.00	0.00
	6H	11.13	11.56	11.65	12.08	12.57	0.00	0.00	0.00	0.00	0.00
	8H	11.08	11.46	11.60	11.96	12.53	0.00	0.00	0.00	0.00	0.00