

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1061596

Luminaire Tested: S125RDRP-S375D830-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061596
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: S125RDRP-S375D830-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

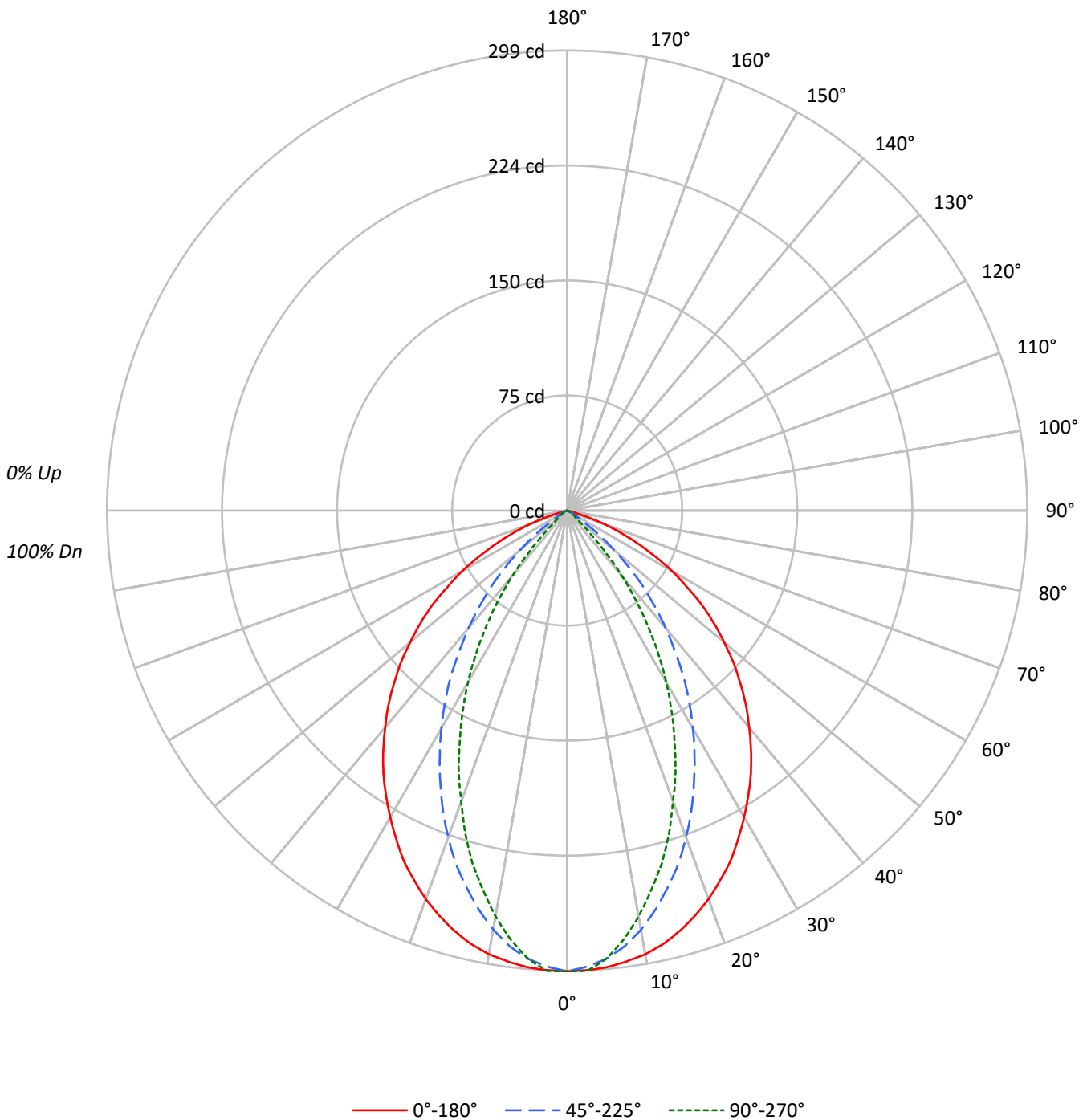
Lumens per Lamp: N/A
Luminaire Lumens: 386.8 lumens
Efficiency: N/A
Efficacy: 30.9 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
Input Voltage (V): 120
Input Current (A_{in}): 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°	2061	2061	2061
5°	2058	2020	2020
10°	2046	1933	1872
15°	2016	1805	1692
20°	1968	1655	1473
25°	1908	1482	1254
30°	1828	1300	1024
35°	1750	1109	767
40°	1655	894	497
45°	1550	677	215
50°	1426	432	80
55°	1284	190	56
60°	1088	81	39
65°	824	52	20
70°	501	24	8
75°	106	11	11
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1550 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.6	7.1
10°-20°	71.9	18.6
20°-30°	92.4	23.9
30°-40°	87.0	22.5
40°-50°	60.8	15.7
50°-60°	32.5	8.4
60°-70°	13.0	3.4
70°-80°	1.7	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°	191.9	49.6
0°-40°	278.9	72.1
0°-60°	372.2	96.2
0°-90°	386.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	386.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	299	299	299	299	299	
5°	298	297	292	293	292	28
15°	283	274	253	241	237	80
25°	251	229	195	174	165	115
35°	208	175	132	102	91	130
45°	159	119	70	34	22	123
55°	107	66	16	6	5	95
65°	51	20	3	2	1	50
75°	4	1	0	0	0	8
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°	299.4	299.4	299.4	299.4	299.4
2.5°	299.0	299.4	296.6	299.0	299.4
5°	297.8	297.0	292.3	293.1	292.3
7.5°	295.5	293.5	285.6	282.8	281.2
10°	292.7	288.4	276.5	270.6	267.8
12.5°	288.4	282.0	265.4	256.4	252.4
15°	282.8	273.7	253.2	241.3	237.4
17.5°	276.1	264.3	240.6	225.9	220.0
20°	268.6	252.8	225.9	208.6	201.1
22.5°	259.9	241.7	210.9	191.6	184.1
25°	251.2	229.1	195.1	173.8	165.1
27.5°	240.6	216.1	179.3	156.4	146.9
30°	229.9	203.0	163.5	138.6	128.8
32.5°	219.2	189.2	147.7	120.1	110.2
35°	208.2	175.0	131.9	101.9	91.2
37.5°	196.3	160.8	114.9	84.5	73.5
40°	184.1	146.9	99.5	67.5	55.3
42.5°	172.2	133.1	84.1	51.0	37.5
45°	159.2	119.3	69.5	33.6	22.1
47.5°	146.9	105.9	54.5	19.4	11.5
50°	133.1	92.0	40.3	10.3	7.5
52.5°	120.1	78.6	26.9	6.7	5.9
55°	107.0	65.6	15.8	5.5	4.7
57.5°	92.0	52.9	8.7	4.3	3.6
60°	79.0	41.5	5.9	3.2	2.8
62.5°	64.0	30.4	4.3	2.4	2.0
65°	50.6	20.1	3.2	1.6	1.2
67.5°	37.5	11.9	2.0	0.8	0.8
70°	24.9	6.3	1.2	0.4	0.4
72.5°	13.0	2.8	0.8	0.4	0.4
75°	4.0	1.2	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	11.45	12.72	11.82	13.03	13.35	0.00	0.00	0.00	0.00	0.00
	3H	12.04	13.15	12.42	13.48	13.85	0.00	0.00	0.00	0.00	0.00
	4H	12.00	13.04	12.41	13.39	13.77	0.00	0.00	0.00	0.00	0.00
	6H	11.92	12.86	12.33	13.23	13.63	0.00	0.00	0.00	0.00	0.00
	8H	11.87	12.76	12.30	13.16	13.56	0.00	0.00	0.00	0.00	0.00
	12H	11.83	12.68	12.26	13.06	13.49	0.00	0.00	0.00	0.00	0.00
4H	2H	11.23	12.26	11.63	12.61	13.00	0.00	0.00	0.00	0.00	0.00
	3H	11.82	12.66	12.23	13.06	13.46	0.00	0.00	0.00	0.00	0.00
	4H	11.77	12.51	12.21	12.93	13.38	0.00	0.00	0.00	0.00	0.00
	6H	11.68	12.32	12.15	12.77	13.24	0.00	0.00	0.00	0.00	0.00
	8H	11.62	12.22	12.09	12.66	13.14	0.00	0.00	0.00	0.00	0.00
	12H	11.57	12.09	12.06	12.58	13.05	0.00	0.00	0.00	0.00	0.00
8H	4H	11.62	12.22	12.09	12.67	13.14	0.00	0.00	0.00	0.00	0.00
	6H	11.52	12.00	12.02	12.50	12.98	0.00	0.00	0.00	0.00	0.00
	8H	11.45	11.88	11.97	12.40	12.89	0.00	0.00	0.00	0.00	0.00
	12H	11.40	11.78	11.92	12.28	12.85	0.00	0.00	0.00	0.00	0.00
12H	4H	11.57	12.09	12.06	12.58	13.05	0.00	0.00	0.00	0.00	0.00
	6H	11.45	11.88	11.97	12.40	12.89	0.00	0.00	0.00	0.00	0.00
	8H	11.40	11.78	11.92	12.28	12.85	0.00	0.00	0.00	0.00	0.00