

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: P1062039

Luminaire Tested: S125RDR-H375D927-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1062039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-84)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-H375D927-X4F0-XX-UDD-BVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

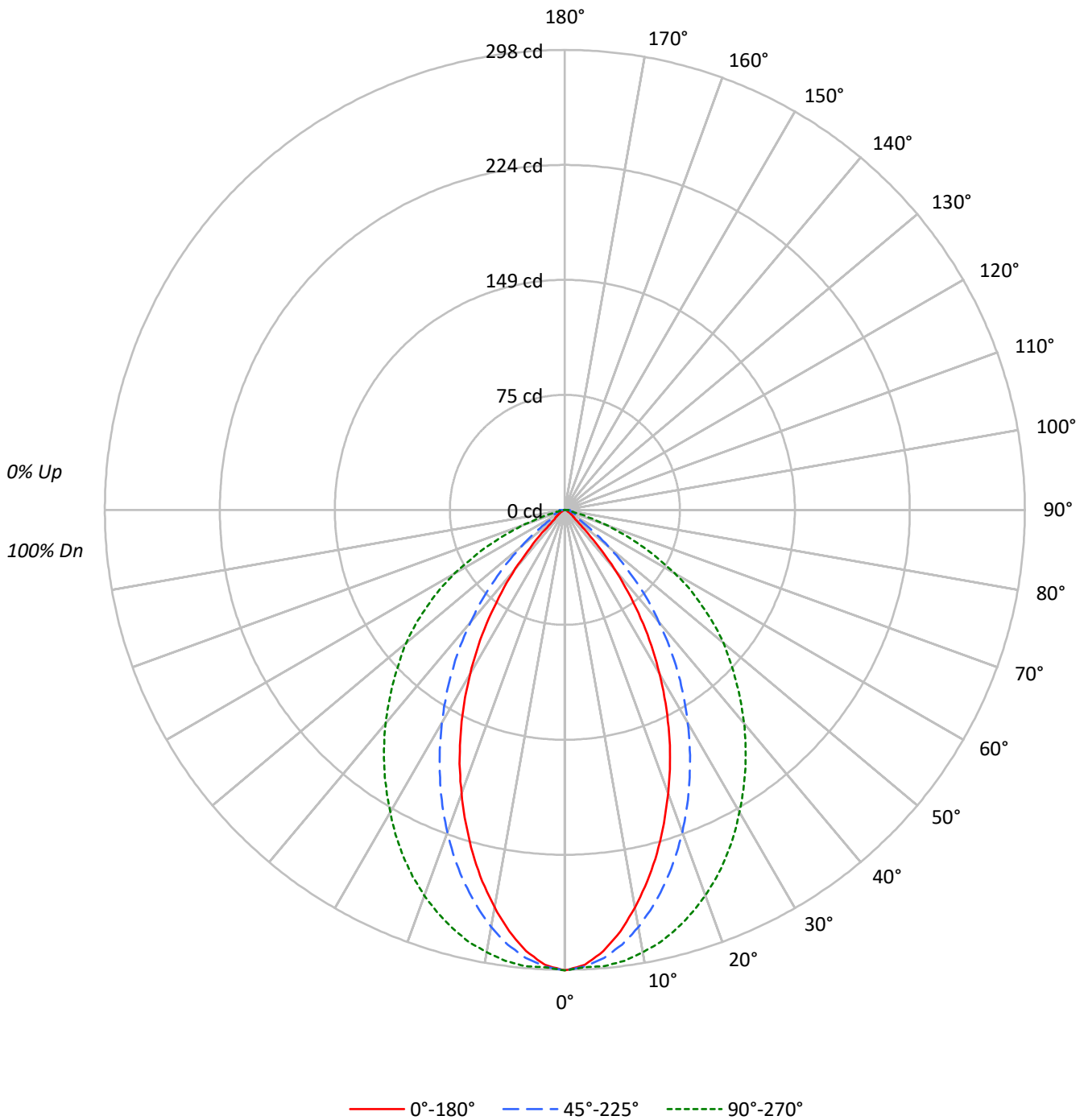
Lumens per Lamp: N/A
Luminaire Lumens: 386.0 lumens
Efficiency: N/A
Efficacy: 33.0 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	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	98	98	96	95	95	93	92	90				
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80				
3	98	89	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72				
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65				
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59				
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53				
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49				
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45				
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41				
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2055	2055	2055
5°	1984	2014	2051
10°	1829	1919	2035
15°	1642	1786	2002
20°	1433	1630	1948
25°	1214	1453	1882
30°	976	1265	1798
35°	722	1067	1714
40°	447	852	1624
45°	174	623	1527
50°	81	391	1439
55°	60	167	1305
60°	41	118	1132
65°	28	124	880
70°	26	113	554
75°	35	114	176
80°	52	131	119
85°	79	261	182

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1527 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.4	7.1
10°-20°	70.9	18.4
20°-30°	90.3	23.4
30°-40°	84.0	21.8
40°-50°	57.9	15.0
50°-60°	32.8	8.5
60°-70°	15.5	4.0
70°-80°	4.8	1.2
80°-90°	2.5	0.7
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°	188.6	48.8
0°-40°	272.6	70.6
0°-60°	363.2	94.1
0°-90°	386.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	386.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	298	298	298	298	298	
5°	287	291	291	294	297	27
15°	230	238	251	270	281	64
25°	160	170	191	224	248	73
35°	86	98	127	170	204	53
45°	18	28	64	116	157	17
55°	5	6	14	67	109	5
65°	2	2	8	24	54	2
75°	1	3	4	5	7	1
85°	1	3	3	3	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	298.4	298.4	298.4	298.4	298.4
2.5°	295.1	298.0	296.1	296.4	296.7
5°	287.1	291.1	291.4	294.1	296.7
7.5°	275.5	280.5	284.1	290.4	294.7
10°	261.6	267.5	274.5	284.8	291.1
12.5°	246.7	253.6	263.2	277.8	286.8
15°	230.4	238.0	250.6	269.5	280.8
17.5°	213.2	221.8	237.0	259.6	273.8
20°	195.6	204.9	222.5	248.3	265.9
22.5°	178.0	187.6	207.2	236.0	257.3
25°	159.8	170.1	191.3	223.5	247.7
27.5°	141.2	151.8	175.4	210.5	237.4
30°	122.7	133.9	159.1	197.3	226.1
32.5°	104.4	115.7	143.2	184.0	215.2
35°	85.9	97.8	127.0	170.4	203.9
37.5°	67.3	80.2	111.1	156.5	192.3
40°	49.7	62.0	94.8	142.9	180.7
42.5°	33.2	45.1	80.2	129.3	168.7
45°	17.9	28.5	64.0	115.7	156.8
47.5°	9.6	15.3	50.1	102.4	145.2
50°	7.6	8.6	36.5	90.2	134.3
52.5°	6.3	7.0	23.9	78.6	121.7
55°	5.0	5.6	13.9	66.6	108.7
57.5°	4.0	4.6	9.0	55.4	96.1
60°	3.0	3.6	8.6	44.4	82.2
62.5°	2.3	2.7	8.0	34.1	67.6
65°	1.7	2.0	7.6	23.9	54.0
67.5°	1.3	1.7	7.0	15.3	40.4
70°	1.3	1.3	5.6	9.9	27.5
72.5°	1.3	2.3	5.0	6.6	16.6
75°	1.3	3.0	4.3	4.6	6.6
77.5°	1.3	3.3	3.6	3.6	3.6
80°	1.3	3.0	3.3	3.3	3.0
82.5°	1.3	2.7	3.0	3.3	2.7
85°	1.0	2.7	3.3	3.0	2.3
87.5°	1.0	2.7	3.0	2.7	1.7
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	0.00	0.00	0.00	0.00	0.00	11.75	13.04	12.11	13.35	13.67
	3H	0.00	0.00	0.00	0.00	0.00	12.47	13.61	12.85	13.94	14.30
	4H	0.00	0.00	0.00	0.00	0.00	12.49	13.55	12.89	13.90	14.29
	6H	0.00	0.00	0.00	0.00	0.00	12.44	13.42	12.86	13.79	14.18
	8H	0.00	0.00	0.00	0.00	0.00	12.42	13.34	12.85	13.73	14.14
	12H	0.00	0.00	0.00	0.00	0.00	12.40	13.28	12.83	13.67	14.10
4H	2H	0.00	0.00	0.00	0.00	0.00	11.54	12.60	11.94	12.95	13.34
	3H	0.00	0.00	0.00	0.00	0.00	12.29	13.16	12.71	13.57	13.97
	4H	0.00	0.00	0.00	0.00	0.00	12.32	13.10	12.76	13.52	13.96
	6H	0.00	0.00	0.00	0.44	0.91	12.30	12.97	12.76	13.41	13.88
	8H	0.00	0.54	0.38	0.98	1.46	12.28	12.91	12.75	13.36	13.83
	12H	0.49	1.04	0.97	1.52	1.99	12.29	12.84	12.78	13.33	13.80
8H	4H	0.00	0.09	0.00	0.53	1.01	12.21	12.83	12.68	13.28	13.75
	6H	1.03	1.54	1.54	2.04	2.52	12.19	12.70	12.70	13.20	13.68
	8H	1.84	2.30	2.37	2.82	3.31	12.21	12.66	12.73	13.18	13.67
	12H	2.70	3.11	3.22	3.60	4.17	12.27	12.67	12.78	13.17	13.74
12H	4H	0.00	0.23	0.17	0.72	1.19	12.16	12.71	12.65	13.20	13.67
	6H	1.41	1.86	1.93	2.38	2.87	12.15	12.60	12.67	13.12	13.61
	8H	2.42	2.82	2.93	3.31	3.89	12.20	12.60	12.71	13.09	13.67