

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: P1062043

Luminaire Tested: S125RDR-H375D927-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1062043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-46)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-H375D927-X4F0-XX-UDD-WVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

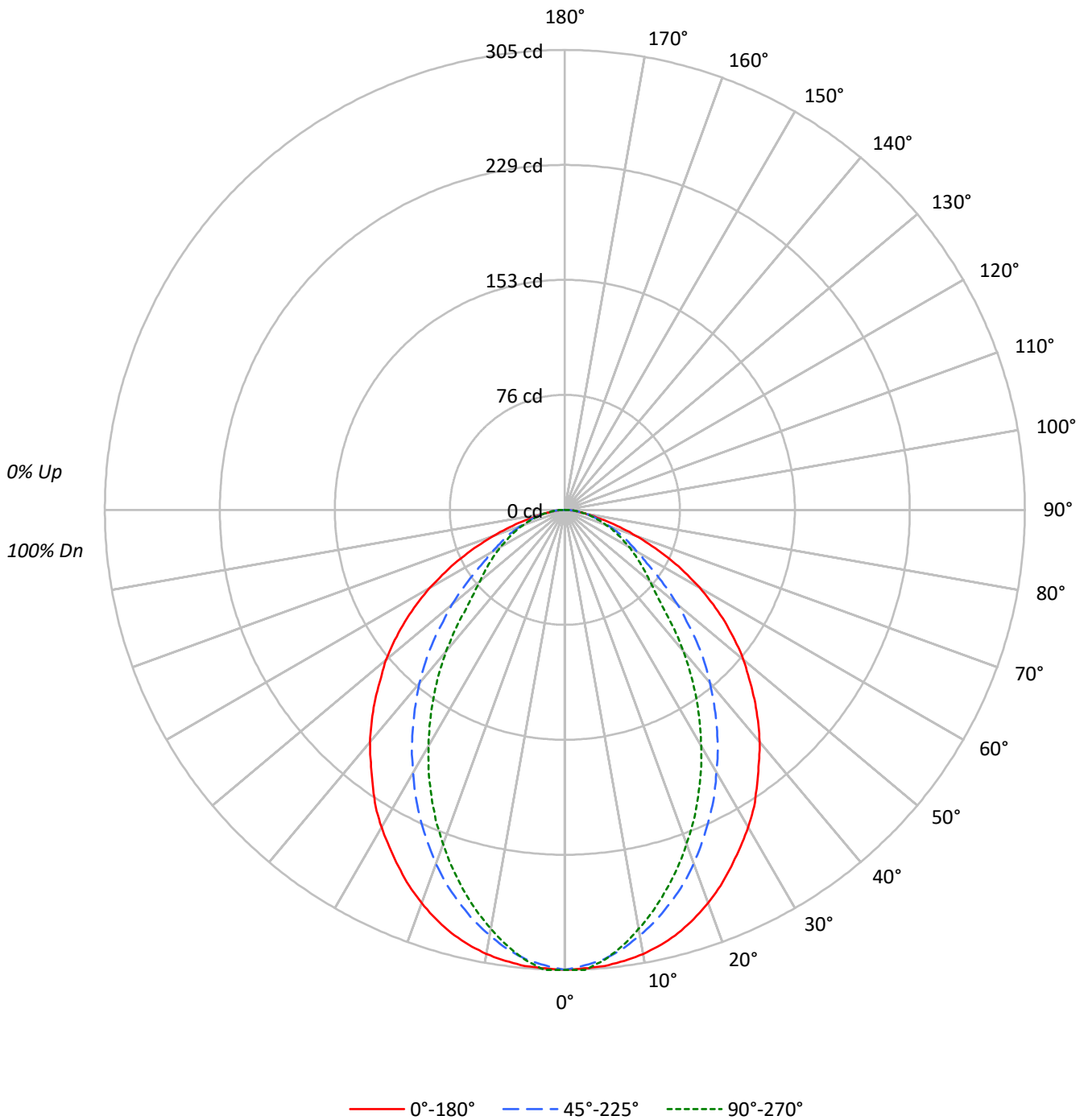
Lumens per Lamp: N/A
Luminaire Lumens: 577.8 lumens
Efficiency: N/A
Efficacy: 49.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87				
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75				
3	93	84	77	71	91	83	76	70	80	74	69	77	72	68	74	70	67	65				
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57				
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50				
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47	45				
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40				
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36				
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33				
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2100	2100	2100
5°	2099	2067	2071
10°	2091	2003	1973
15°	2071	1924	1858
20°	2033	1830	1728
25°	1983	1721	1590
30°	1933	1598	1437
35°	1868	1475	1275
40°	1807	1346	1098
45°	1731	1203	900
50°	1657	1043	787
55°	1555	870	727
60°	1418	762	679
65°	1241	696	630
70°	1007	626	586
75°	724	572	545
80°	500	511	511
85°	363	442	474

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1731 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.4	4.9
10°-20°	76.7	13.3
20°-30°	106.0	18.3
30°-40°	112.9	19.5
40°-50°	99.2	17.2
50°-60°	75.2	13.0
60°-70°	48.8	8.5
70°-80°	24.2	4.2
80°-90°	6.3	1.1
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°	211.1	36.5
0°-40°	324.0	56.1
0°-60°	498.4	86.3
0°-90°	577.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	577.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	305	305	305	305	305	
5°	304	303	299	300	300	29
15°	290	284	270	264	261	82
25°	261	247	226	215	209	120
35°	222	202	176	160	152	139
45°	178	153	124	101	92	137
55°	130	104	72	63	61	116
65°	76	57	43	39	39	75
75°	27	24	22	21	20	30
85°	5	5	6	6	6	6
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	305.0	305.0	305.0	305.0	305.0
2.5°	304.4	305.0	302.4	304.7	305.4
5°	303.7	303.0	299.1	300.1	299.7
7.5°	301.7	300.4	293.8	293.1	291.8
10°	299.1	295.8	286.5	284.2	282.2
12.5°	295.4	290.1	278.9	274.2	271.9
15°	290.5	283.8	269.9	263.6	260.6
17.5°	284.5	275.2	260.6	252.0	248.7
20°	277.5	266.6	249.7	239.8	235.8
22.5°	269.9	257.0	238.1	227.5	223.2
25°	261.0	246.7	226.5	214.9	209.3
27.5°	252.0	236.1	214.3	201.4	195.4
30°	243.1	224.9	201.0	187.1	180.8
32.5°	233.5	213.3	188.8	173.5	166.3
35°	222.2	201.7	175.5	159.6	151.7
37.5°	211.3	189.4	162.6	144.7	137.1
40°	201.0	177.8	149.7	130.2	122.2
42.5°	189.4	165.6	136.8	116.2	107.3
45°	177.8	153.0	123.5	101.3	92.4
47.5°	165.6	141.1	109.6	87.8	81.8
50°	154.7	128.8	97.4	77.5	73.5
52.5°	142.1	116.9	84.8	69.5	66.9
55°	129.5	104.0	72.5	62.6	60.6
57.5°	116.6	92.4	62.9	56.6	54.6
60°	103.0	80.5	55.3	50.3	49.3
62.5°	89.4	68.2	48.7	45.0	43.7
65°	76.2	56.6	42.7	39.4	38.7
67.5°	62.6	46.0	36.8	34.4	34.1
70°	50.0	37.4	31.1	29.8	29.1
72.5°	38.4	29.8	26.2	25.2	24.8
75°	27.2	23.8	21.5	20.9	20.5
77.5°	18.2	18.2	17.2	16.6	16.9
80°	12.6	13.2	12.9	12.9	12.9
82.5°	8.3	8.9	9.3	9.3	9.3
85°	4.6	5.3	5.6	5.6	6.0
87.5°	1.7	2.0	2.3	2.6	2.6
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	13.13	14.62	13.50	14.94	15.25	9.37	10.86	9.73	11.17	11.49
	3H	14.44	15.78	14.82	16.11	16.47	10.95	12.29	11.33	12.62	12.98
	4H	14.81	16.06	15.21	16.41	16.79	11.55	12.81	11.95	13.16	13.53
	6H	14.99	16.14	15.40	16.51	16.90	12.03	13.18	12.44	13.55	13.94
	8H	15.02	16.12	15.45	16.51	16.92	12.19	13.29	12.61	13.68	14.08
	12H	15.04	16.09	15.47	16.47	16.90	12.30	13.35	12.73	13.74	14.17
4H	2H	13.24	14.50	13.64	14.85	15.22	10.03	11.28	10.43	11.63	12.01
	3H	14.73	15.77	15.14	16.17	16.57	11.81	12.85	12.22	13.25	13.65
	4H	15.20	16.14	15.64	16.55	16.99	12.53	13.46	12.96	13.88	14.32
	6H	15.49	16.30	15.95	16.74	17.20	13.12	13.93	13.58	14.38	14.84
	8H	15.56	16.32	16.02	16.76	17.23	13.33	14.08	13.79	14.53	15.00
	12H	15.60	16.27	16.08	16.75	17.23	13.48	14.16	13.97	14.64	15.11
8H	4H	15.29	16.05	15.75	16.49	16.96	12.84	13.60	13.31	14.04	14.51
	6H	15.65	16.27	16.15	16.77	17.24	13.55	14.17	14.05	14.67	15.14
	8H	15.77	16.33	16.28	16.84	17.33	13.83	14.39	14.35	14.90	15.39
	12H	15.85	16.35	16.36	16.84	17.41	14.06	14.56	14.57	15.05	15.61
12H	4H	15.28	15.96	15.76	16.44	16.91	12.87	13.54	13.35	14.02	14.49
	6H	15.65	16.21	16.17	16.73	17.21	13.60	14.16	14.12	14.67	15.16
	8H	15.81	16.31	16.32	16.80	17.37	13.94	14.43	14.45	14.93	15.49