

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: P1062061

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1062061
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-H375D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

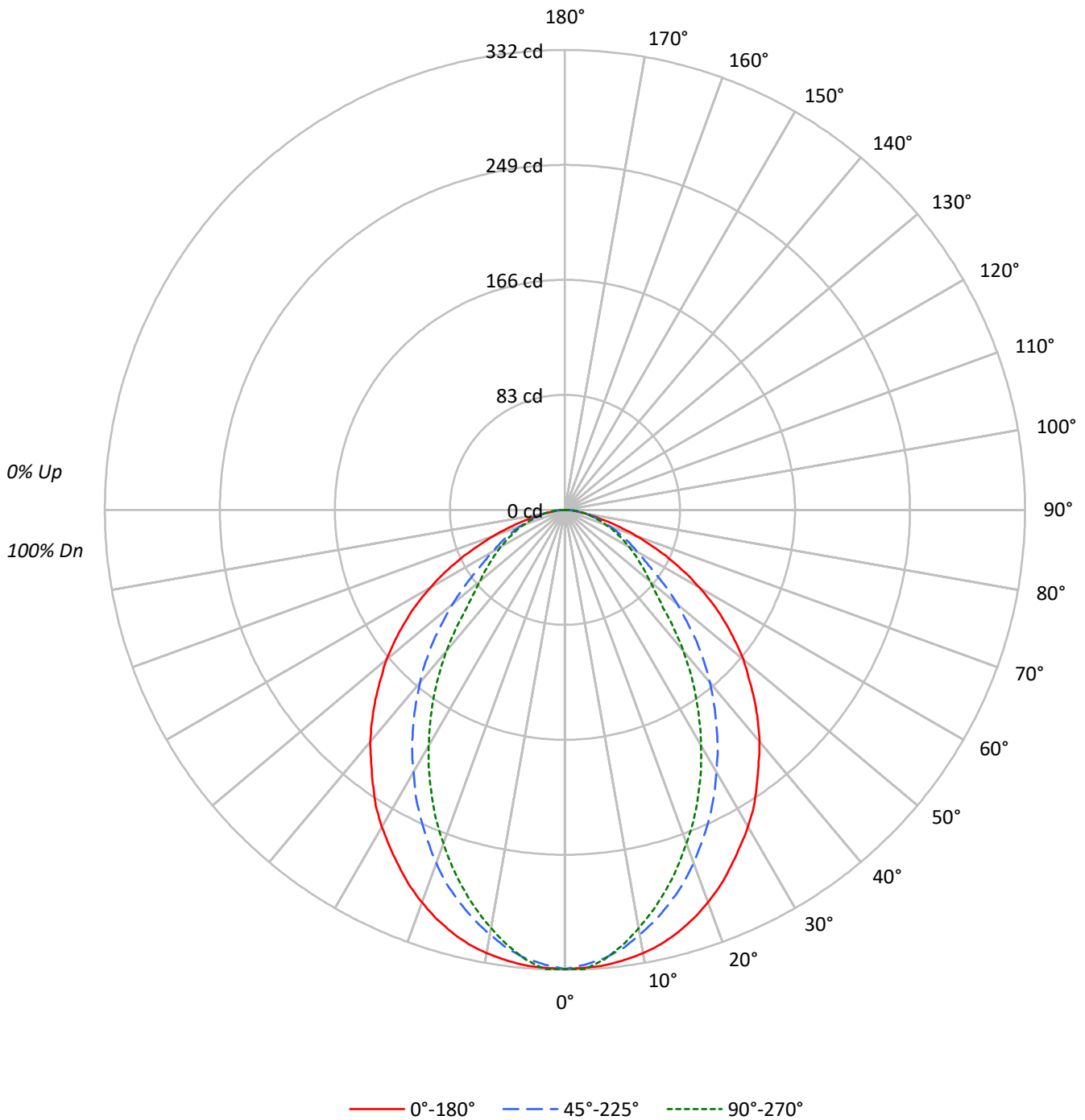
Lumens per Lamp: N/A
Luminaire Lumens: 628.0 lumens
Efficiency: N/A
Efficacy: 53.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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									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	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	82	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°	2282	2282	2282
5°	2281	2246	2252
10°	2272	2177	2144
15°	2250	2091	2019
20°	2210	1989	1878
25°	2155	1870	1728
30°	2100	1737	1562
35°	2030	1604	1386
40°	1964	1462	1194
45°	1882	1308	978
50°	1801	1133	856
55°	1689	946	791
60°	1541	828	738
65°	1349	756	686
70°	1095	680	638
75°	785	622	593
80°	543	555	555
85°	395	482	513

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1882 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.8	4.9
10°-20°	83.4	13.3
20°-30°	115.2	18.3
30°-40°	122.7	19.5
40°-50°	107.8	17.2
50°-60°	81.8	13.0
60°-70°	53.1	8.5
70°-80°	26.3	4.2
80°-90°	6.9	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°	229.4	36.5
0°-40°	352.2	56.1
0°-60°	541.7	86.3
0°-90°	628.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	628.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	332	332	332	332	332	
5°	330	329	325	326	326	31
15°	316	308	293	286	283	89
25°	284	268	246	234	228	131
35°	242	219	191	174	165	151
45°	193	166	134	110	100	149
55°	141	113	79	68	66	126
65°	83	62	46	43	42	82
75°	30	26	23	23	22	33
85°	5	6	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°	331.5	331.5	331.5	331.5	331.5
2.5°	330.8	331.5	328.6	331.2	331.9
5°	330.1	329.4	325.0	326.1	325.8
7.5°	327.9	326.5	319.3	318.6	317.1
10°	325.0	321.4	311.4	308.8	306.7
12.5°	321.1	315.3	303.1	298.0	295.5
15°	315.7	308.5	293.4	286.5	283.3
17.5°	309.2	299.1	283.3	273.9	270.3
20°	301.6	289.8	271.4	260.6	256.3
22.5°	293.4	279.3	258.8	247.3	242.6
25°	283.6	268.2	246.2	233.6	227.5
27.5°	273.9	256.7	232.9	218.9	212.4
30°	264.2	244.4	218.5	203.4	196.5
32.5°	253.8	231.8	205.2	188.6	180.7
35°	241.5	219.2	190.8	173.5	164.9
37.5°	229.7	205.9	176.7	157.3	149.0
40°	218.5	193.3	162.7	141.5	132.8
42.5°	205.9	180.0	148.7	126.3	116.6
45°	193.3	166.3	134.3	110.1	100.4
47.5°	180.0	153.3	119.1	95.4	88.9
50°	168.1	140.0	105.8	84.2	79.9
52.5°	154.4	127.1	92.1	75.6	72.7
55°	140.7	113.0	78.8	68.0	65.9
57.5°	126.7	100.4	68.4	61.6	59.4
60°	111.9	87.5	60.1	54.7	53.6
62.5°	97.2	74.2	52.9	49.0	47.5
65°	82.8	61.6	46.4	42.8	42.1
67.5°	68.0	50.0	40.0	37.4	37.1
70°	54.4	40.7	33.8	32.4	31.7
72.5°	41.8	32.4	28.4	27.4	27.0
75°	29.5	25.9	23.4	22.7	22.3
77.5°	19.8	19.8	18.7	18.0	18.4
80°	13.7	14.4	14.0	14.0	14.0
82.5°	9.0	9.7	10.1	10.1	10.1
85°	5.0	5.8	6.1	6.1	6.5
87.5°	1.8	2.2	2.5	2.9	2.9
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	13.42	14.91	13.78	15.22	15.54	9.67	11.16	10.03	11.47	11.79
	3H	14.73	16.07	15.11	16.40	16.76	11.25	12.58	11.63	12.91	13.27
	4H	15.10	16.35	15.50	16.70	17.08	11.85	13.10	12.25	13.45	13.83
	6H	15.28	16.43	15.69	16.80	17.19	12.32	13.48	12.73	13.85	14.24
	8H	15.31	16.41	15.74	16.80	17.21	12.48	13.58	12.91	13.97	14.37
	12H	15.33	16.38	15.76	16.76	17.19	12.59	13.65	13.03	14.03	14.46
4H	2H	13.53	14.78	13.93	15.13	15.51	10.33	11.58	10.73	11.93	12.31
	3H	15.02	16.06	15.43	16.46	16.86	12.11	13.14	12.52	13.54	13.95
	4H	15.49	16.43	15.93	16.84	17.28	12.82	13.76	13.26	14.17	14.61
	6H	15.78	16.59	16.24	17.03	17.49	13.41	14.22	13.87	14.67	15.13
	8H	15.85	16.61	16.31	17.05	17.52	13.62	14.38	14.08	14.82	15.29
	12H	15.89	16.56	16.37	17.04	17.52	13.77	14.45	14.26	14.93	15.40
8H	4H	15.58	16.33	16.04	16.78	17.25	13.14	13.89	13.60	14.34	14.81
	6H	15.94	16.57	16.44	17.06	17.54	13.84	14.47	14.34	14.96	15.44
	8H	16.06	16.62	16.57	17.13	17.62	14.12	14.68	14.64	15.19	15.68
	12H	16.14	16.64	16.65	17.13	17.70	14.35	14.85	14.86	15.34	15.90
12H	4H	15.57	16.25	16.05	16.73	17.20	13.16	13.84	13.64	14.32	14.79
	6H	15.94	16.50	16.46	17.02	17.50	13.89	14.45	14.41	14.96	15.45
	8H	16.10	16.60	16.61	17.09	17.66	14.23	14.72	14.74	15.22	15.78