

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: P1062037

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1062037
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-H375D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

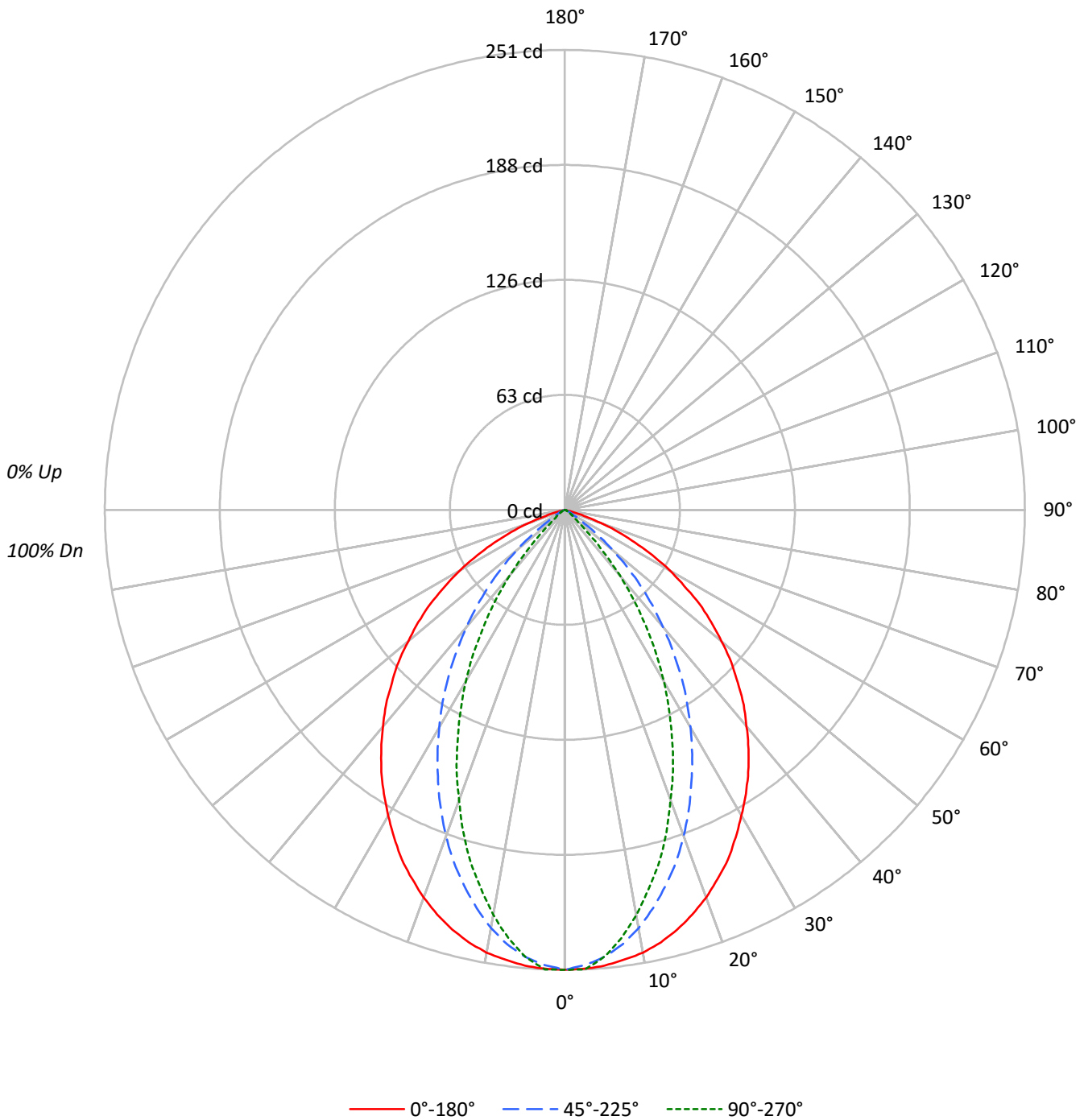
Lumens per Lamp: N/A
Luminaire Lumens: 324.3 lumens
Efficiency: N/A
Efficacy: 27.7 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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°	1728	1728	1728
5°	1726	1694	1694
10°	1716	1621	1570
15°	1690	1513	1418
20°	1650	1388	1235
25°	1600	1243	1051
30°	1532	1090	859
35°	1467	930	643
40°	1387	751	417
45°	1300	568	180
50°	1195	362	67
55°	1077	158	48
60°	912	69	32
65°	691	42	16
70°	421	20	6
75°	88	8	8
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1300 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.1	7.1
10°-20°	60.3	18.6
20°-30°	77.5	23.9
30°-40°	72.9	22.5
40°-50°	51.0	15.7
50°-60°	27.2	8.4
60°-70°	10.9	3.3
70°-80°	1.4	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°	160.9	49.6
0°-40°	233.8	72.1
0°-60°	312.0	96.2
0°-90°	324.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	324.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	251	251	251	251	251	
5°	250	249	245	246	245	24
15°	237	230	212	202	199	67
25°	211	192	164	146	138	97
35°	174	147	111	85	76	109
45°	134	100	58	28	18	103
55°	90	55	13	5	4	80
65°	42	17	3	1	1	42
75°	3	1	0	0	0	6
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°	251.0	251.0	251.0	251.0	251.0
2.5°	250.7	251.0	248.7	250.7	251.0
5°	249.7	249.0	245.1	245.7	245.1
7.5°	247.7	246.1	239.4	237.1	235.8
10°	245.4	241.8	231.8	226.9	224.5
12.5°	241.8	236.5	222.6	214.9	211.6
15°	237.1	229.5	212.3	202.3	199.0
17.5°	231.5	221.6	201.7	189.4	184.5
20°	225.2	212.0	189.4	174.9	168.6
22.5°	217.9	202.7	176.8	160.6	154.3
25°	210.6	192.1	163.6	145.7	138.4
27.5°	201.7	181.2	150.4	131.1	123.2
30°	192.7	170.2	137.1	116.2	108.0
32.5°	183.8	158.6	123.9	100.7	92.4
35°	174.5	146.7	110.6	85.4	76.5
37.5°	164.6	134.8	96.4	70.9	61.6
40°	154.3	123.2	83.5	56.6	46.4
42.5°	144.4	111.6	70.5	42.7	31.5
45°	133.5	100.0	58.3	28.2	18.5
47.5°	123.2	88.8	45.7	16.2	9.6
50°	111.6	77.2	33.8	8.6	6.3
52.5°	100.7	65.9	22.5	5.6	5.0
55°	89.7	55.0	13.2	4.6	4.0
57.5°	77.2	44.4	7.3	3.6	3.0
60°	66.2	34.8	5.0	2.6	2.3
62.5°	53.7	25.5	3.6	2.0	1.7
65°	42.4	16.9	2.6	1.3	1.0
67.5°	31.5	9.9	1.7	0.7	0.7
70°	20.9	5.3	1.0	0.3	0.3
72.5°	10.9	2.3	0.7	0.3	0.3
75°	3.3	1.0	0.3	0.3	0.3
77.5°	0.0	0.3	0.0	0.0	0.3
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	10.85	12.11	11.21	12.42	12.74	0.00	0.00	0.00	0.00	0.00
	3H	11.43	12.55	11.81	12.88	13.24	0.00	0.00	0.00	0.00	0.00
	4H	11.40	12.43	11.80	12.78	13.16	0.00	0.00	0.00	0.00	0.00
	6H	11.31	12.26	11.73	12.63	13.02	0.00	0.00	0.00	0.00	0.00
	8H	11.26	12.16	11.70	12.55	12.96	0.00	0.00	0.00	0.00	0.00
	12H	11.22	12.07	11.65	12.45	12.89	0.00	0.00	0.00	0.00	0.00
4H	2H	10.62	11.65	11.03	12.01	12.39	0.00	0.00	0.00	0.00	0.00
	3H	11.21	12.05	11.63	12.45	12.86	0.00	0.00	0.00	0.00	0.00
	4H	11.16	11.90	11.60	12.33	12.77	0.00	0.00	0.00	0.00	0.00
	6H	11.08	11.71	11.54	12.16	12.63	0.00	0.00	0.00	0.00	0.00
	8H	11.02	11.61	11.49	12.06	12.53	0.00	0.00	0.00	0.00	0.00
	12H	10.96	11.49	11.45	11.97	12.45	0.00	0.00	0.00	0.00	0.00
8H	4H	11.02	11.61	11.49	12.06	12.53	0.00	0.00	0.00	0.00	0.00
	6H	10.91	11.39	11.41	11.89	12.37	0.00	0.00	0.00	0.00	0.00
	8H	10.84	11.27	11.37	11.79	12.28	0.00	0.00	0.00	0.00	0.00
	12H	10.79	11.17	11.31	11.67	12.24	0.00	0.00	0.00	0.00	0.00
12H	4H	10.96	11.49	11.45	11.97	12.45	0.00	0.00	0.00	0.00	0.00
	6H	10.84	11.27	11.37	11.79	12.28	0.00	0.00	0.00	0.00	0.00
	8H	10.79	11.17	11.31	11.67	12.24	0.00	0.00	0.00	0.00	0.00