

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: P1004629

Luminaire Tested: S125DR-B610DB30-4F0-XX-W2A-F

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P1004629
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DR-B610DB30-4F0-XX-W2A-F
Description: Define 5 Direct Recessed with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

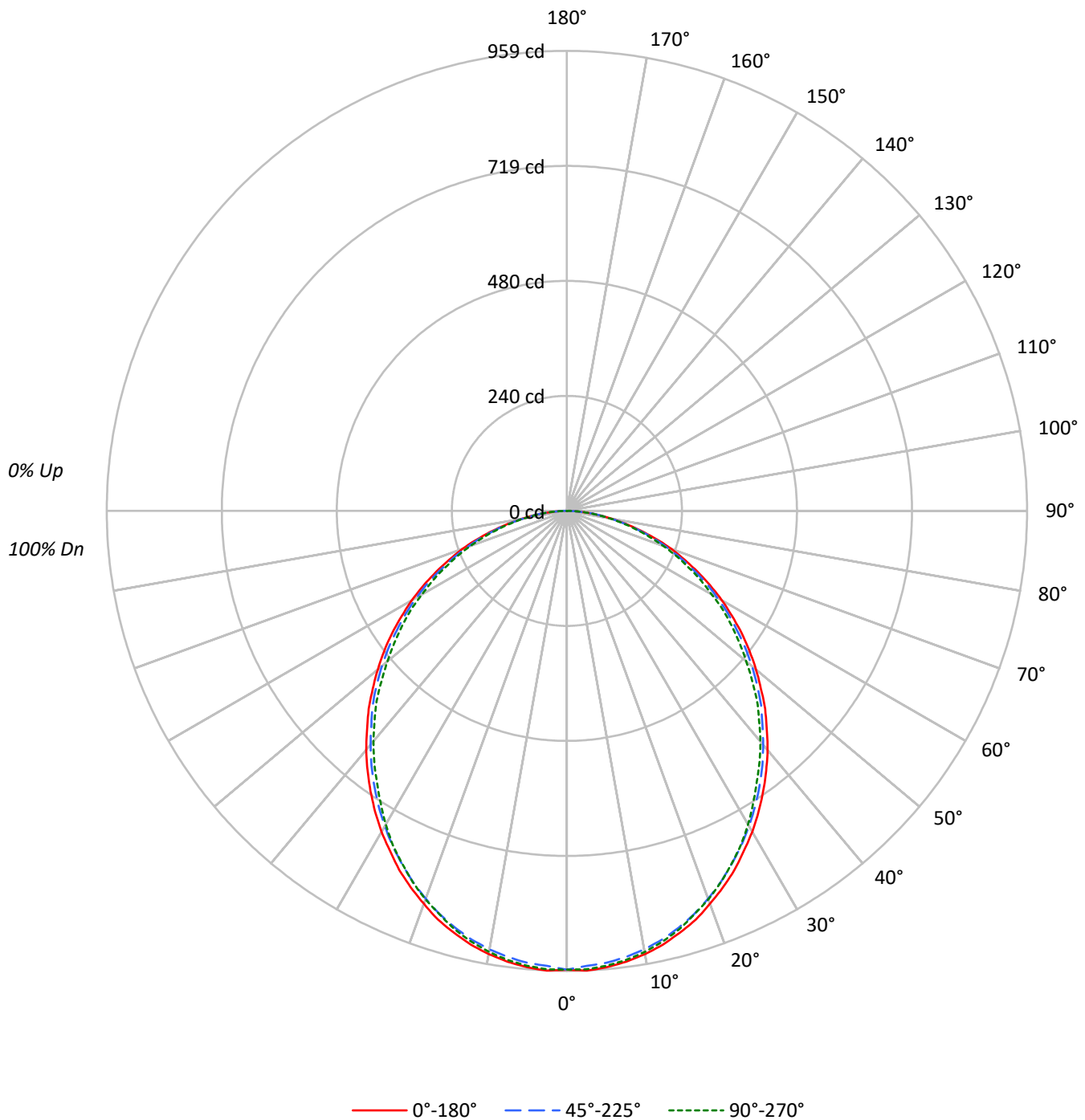
Lumens per Lamp: N/A
Luminaire Lumens: 2489.0 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24
Input Voltage (V):
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84		
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70		
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	59		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44		
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39		
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34		
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31		
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28		
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6127	6127	6127
5°	6141	6082	6122
10°	6103	6039	6074
15°	6037	5967	5992
20°	5943	5865	5875
25°	5841	5744	5739
30°	5715	5614	5586
35°	5580	5474	5397
40°	5442	5322	5246
45°	5293	5183	5080
50°	5128	5015	4864
55°	4970	4826	4690
60°	4780	4634	4470
65°	4554	4404	4256
70°	4337	4138	3998
75°	3951	3820	3689
80°	3516	3461	3376
85°	3058	3117	2948

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5293 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.2	3.6
10°-20°	254.9	10.2
20°-30°	376.3	15.1
30°-40°	439.0	17.6
40°-50°	440.9	17.7
50°-60°	387.1	15.6
60°-70°	288.3	11.6
70°-80°	164.6	6.6
80°-90°	47.5	1.9
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°	721.4	29.0
0°-40°	1160.5	46.6
0°-60°	1988.5	79.9
0°-90°	2489.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2489.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	956	956	956	956	956	
5°	955	953	946	952	952	91
15°	910	908	900	903	903	257
25°	826	822	812	814	812	380
35°	713	710	700	696	690	446
45°	584	581	572	563	561	450
55°	445	443	432	425	420	397
65°	300	299	290	284	281	298
75°	160	158	154	152	149	170
85°	42	42	42	42	40	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	956.3	956.3	956.3	956.3	956.3
2.5°	959.3	957.1	949.5	957.1	956.3
5°	954.8	953.3	945.7	952.5	951.8
7.5°	948.0	946.5	938.1	944.9	944.2
10°	938.1	936.6	928.3	934.4	933.6
12.5°	926.0	923.0	915.4	920.0	920.0
15°	910.1	907.9	899.6	903.3	903.3
17.5°	893.5	889.7	881.4	885.9	882.2
20°	871.6	870.0	860.2	865.5	861.7
22.5°	849.6	846.6	837.5	840.5	838.3
25°	826.2	822.4	812.5	814.1	811.8
27.5°	798.9	796.7	786.8	787.6	785.3
30°	772.5	770.2	758.8	757.3	755.0
32.5°	743.7	739.9	730.1	727.1	722.5
35°	713.4	710.4	699.8	696.0	690.0
37.5°	682.4	678.6	668.8	663.5	659.7
40°	650.6	646.9	636.3	629.5	627.2
42.5°	616.6	613.6	603.0	596.9	593.1
45°	584.1	581.0	572.0	562.9	560.6
47.5°	548.5	549.3	537.9	528.8	523.5
50°	514.5	512.2	503.1	493.3	488.0
52.5°	479.7	478.1	468.3	460.0	453.9
55°	444.9	442.6	432.0	425.2	419.9
57.5°	407.8	407.0	398.0	388.9	386.6
60°	373.0	370.0	361.6	354.1	348.8
62.5°	336.7	334.4	327.6	319.3	315.5
65°	300.4	298.8	290.5	283.7	280.7
67.5°	264.8	261.8	255.7	249.7	248.2
70°	231.5	227.7	220.9	216.4	213.4
72.5°	195.2	192.9	189.1	183.8	180.8
75°	159.6	158.1	154.3	152.1	149.0
77.5°	126.3	125.6	123.3	121.8	119.5
80°	95.3	95.3	93.8	93.1	91.5
82.5°	68.1	66.6	66.6	65.1	65.1
85°	41.6	42.4	42.4	41.6	40.1
87.5°	20.4	20.4	19.7	19.7	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)