

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: P1028120

Luminaire Tested: S125DIP-B610D610UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028120
REPORT IS A COMBINATION OF REPORTS P1002329 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D610UB30-4F0-XX-W2A-F
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

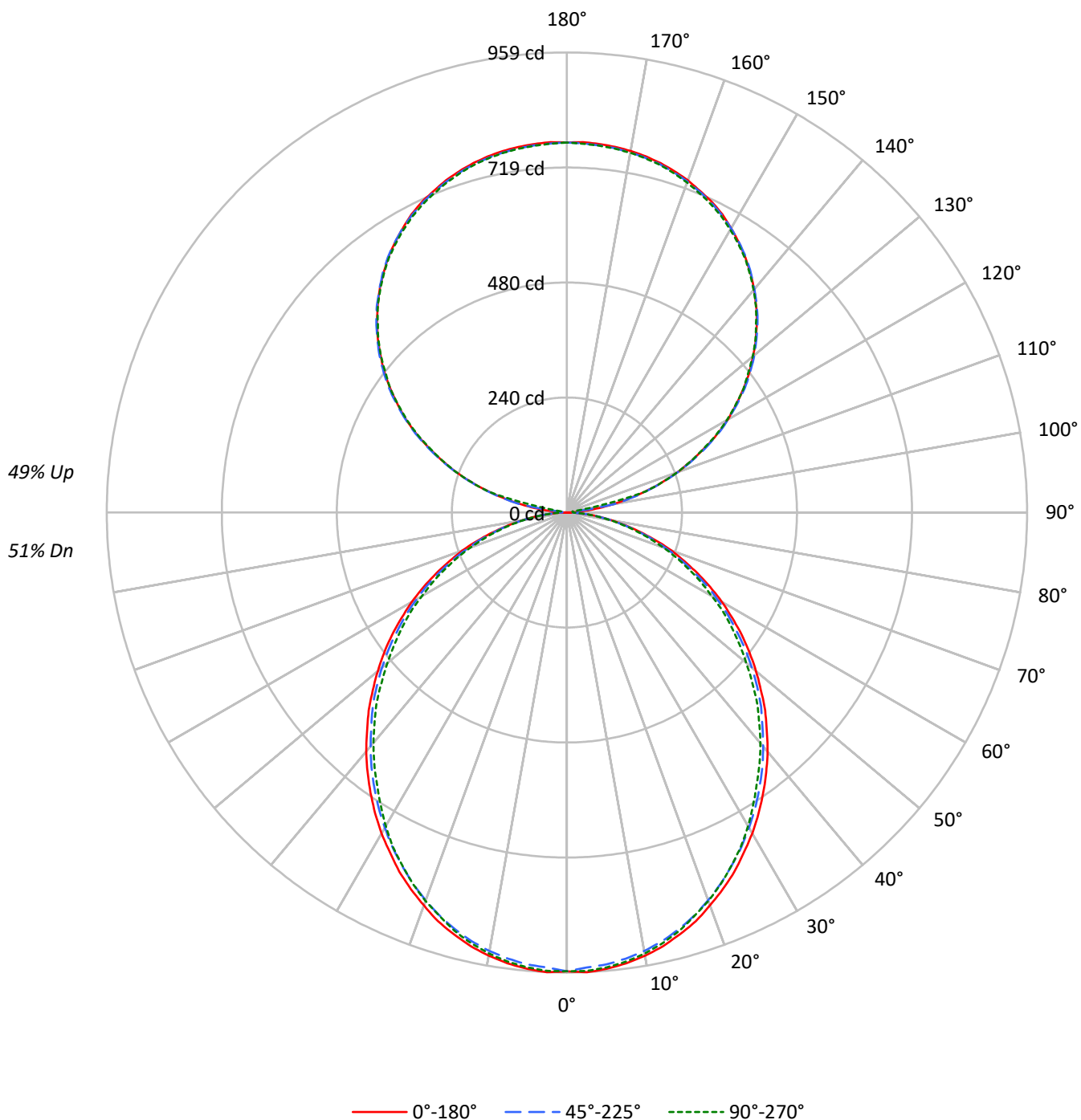
Lumens per Lamp: N/A
Luminaire Lumens: 4859.0 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
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
RCR																	
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57
1	98	94	90	86	90	87	83	80	74	71	69	62	60	58	51	49	48
2	89	82	76	70	82	76	70	66	64	60	57	54	51	49	44	42	41
3	81	72	64	59	75	67	60	55	57	52	48	48	44	41	39	37	35
4	74	64	56	50	68	59	52	47	50	45	41	43	38	35	35	32	30
5	68	57	48	42	63	53	45	40	45	39	35	38	34	30	32	28	26
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	29	25	23
7	58	46	38	32	54	43	36	30	37	31	27	31	27	24	26	23	20
8	54	42	34	28	50	39	32	27	34	28	24	29	24	21	24	21	18
9	50	38	30	25	46	36	29	24	31	25	21	26	22	19	22	19	16
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	21	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6127	6127	6127
5°	6127	5985	5997
10°	6076	5848	5829
15°	5997	5684	5632
20°	5889	5493	5407
25°	5773	5285	5165
30°	5634	5069	4911
35°	5484	4843	4626
40°	5330	4603	4372
45°	5163	4370	4103
50°	4980	4105	3789
55°	4798	3813	3500
60°	4581	3504	3165
65°	4322	3148	2817
70°	4058	2738	2417
75°	3614	2254	1953
80°	3080	1684	1436
85°	2378	997	792

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5163 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.2	1.9
10°-20°	254.9	5.2
20°-30°	376.3	7.7
30°-40°	439.0	9.0
40°-50°	440.9	9.1
50°-60°	387.1	8.0
60°-70°	288.3	5.9
70°-80°	164.6	3.4
80°-90°	48.7	1.0
90°-100°	26.2	0.5
100°-110°	174.1	3.6
110°-120°	313.4	6.5
120°-130°	402.3	8.3
130°-140°	432.7	8.9
140°-150°	406.1	8.4
150°-160°	328.5	6.8
160°-170°	212.4	4.4
170°-180°	73.3	1.5
0°-30°	721.4	14.8
0°-40°	1160.5	23.9
0°-60°	1988.5	40.9
0°-90°	2490.1	51.2
90°-120°	513.6	10.6
90°-150°	1754.7	36.1
90°-180°	2369.0	48.8
0°-180°	4859.0	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	46
90°	1	5	9	12	14	4
95°	33	31	9	12	12	40
105°	168	170	170	170	170	178
115°	316	318	319	317	313	313
125°	449	453	453	450	449	401
135°	560	563	562	561	557	431
145°	649	650	650	650	647	406
155°	715	711	712	714	709	329
165°	754	751	751	755	750	213
175°	771	768	768	773	768	73
180°	771	771	771	771	771	

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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°	0.6	5.1	9.1	12.0	13.7
92.5°	10.9	5.7	9.1	12.0	12.6
95°	32.6	30.9	9.1	12.0	12.0
97.5°	61.2	64.6	10.3	11.4	12.0
100°	95.5	97.2	99.5	14.3	12.0
102.5°	130.3	132.6	133.8	134.9	86.9
105°	168.1	170.4	170.4	170.4	169.8
107.5°	206.9	206.9	208.1	208.7	206.4
110°	244.7	244.7	245.8	244.1	244.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	280.1	281.8	282.4	280.1	279.0
115°	315.6	318.4	319.0	316.7	313.3
117.5°	352.7	352.7	355.0	351.6	350.4
120°	387.0	386.4	388.2	387.0	384.2
122.5°	417.3	420.2	420.7	419.6	416.2
125°	448.8	452.8	452.8	450.5	448.8
127.5°	479.0	481.9	481.3	480.2	475.6
130°	506.5	509.3	509.9	508.2	505.3
132.5°	533.9	537.4	535.6	535.6	532.8
135°	559.7	563.1	561.9	560.8	557.4
137.5°	583.7	587.1	585.9	585.9	583.1
140°	607.1	608.2	607.7	608.8	605.4
142.5°	628.3	628.8	630.0	630.0	626.5
145°	648.8	650.0	650.0	650.5	647.1
147.5°	667.1	667.1	667.7	668.3	664.3
150°	684.3	683.1	684.3	685.4	680.8
152.5°	700.9	698.0	699.1	700.3	696.3
155°	714.6	711.1	712.3	714.0	709.4
157.5°	725.4	723.7	723.7	725.4	720.9
160°	736.9	733.4	734.0	736.3	731.7
162.5°	746.0	742.6	743.2	746.6	741.4
165°	754.0	750.6	751.2	754.6	750.0
167.5°	760.3	756.9	757.4	761.4	756.3
170°	765.4	761.4	762.0	766.6	761.4
172.5°	768.9	764.9	766.0	770.0	764.9
175°	771.2	767.7	768.3	772.9	767.7
177.5°	772.9	769.5	770.0	774.0	769.5
180°	771.2	771.2	771.2	771.2	771.2

(END OF REPORT)