

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: P1028126

Luminaire Tested: S125DIP-B610D610UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028126
REPORT IS A COMBINATION OF REPORTS P1002335 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D610UB35-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

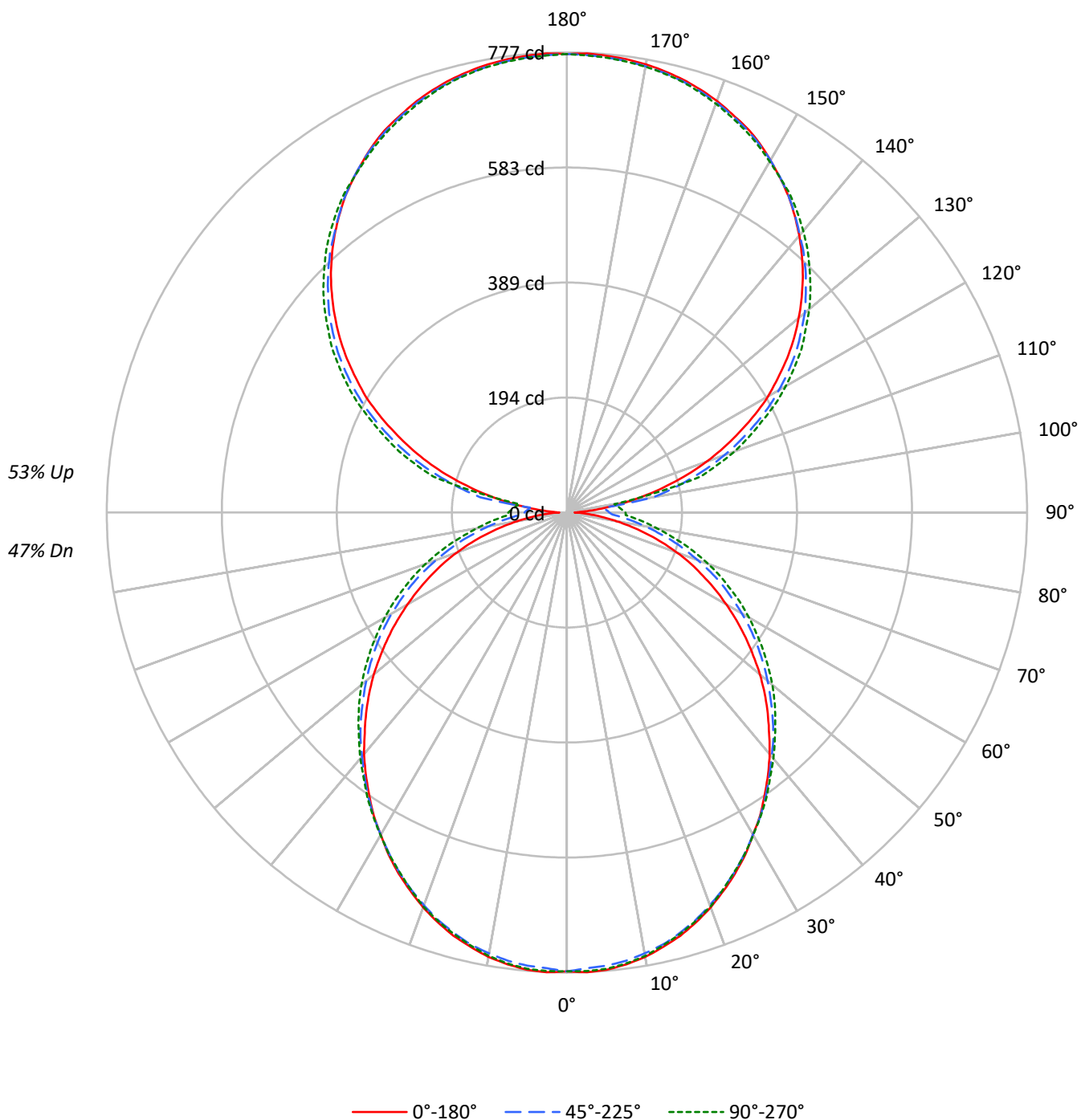
Lumens per Lamp: N/A
Luminaire Lumens: 4781.1 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	106	106	106	106	98	98	98	98	82	82	82	67	67	67	54	54	54
1	96	92	88	84	88	84	81	78	71	68	66	58	56	54	46	45	44
2	88	80	73	68	80	73	68	63	61	57	54	50	47	45	40	38	36
3	80	70	62	56	73	64	58	52	54	49	45	44	41	38	35	33	31
4	73	62	54	47	66	57	50	44	48	42	38	39	35	32	32	29	26
5	67	55	47	40	61	51	43	38	43	37	33	35	31	28	28	25	23
6	61	49	41	35	56	45	38	33	38	33	28	32	27	24	26	22	20
7	57	44	36	31	52	41	34	29	35	29	25	29	25	21	23	20	18
8	53	40	32	27	48	37	30	25	32	26	22	26	22	19	21	18	16
9	49	37	29	24	45	34	27	22	29	24	20	24	20	17	20	17	14
10	46	34	26	21	42	31	25	20	27	21	18	22	18	15	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4966	4966	4966
5°	4974	4862	4873
10°	4936	4763	4749
15°	4876	4647	4596
20°	4795	4508	4444
25°	4699	4360	4259
30°	4583	4198	4092
35°	4475	4049	3938
40°	4364	3892	3782
45°	4239	3756	3642
50°	4119	3608	3517
55°	3974	3467	3369
60°	3817	3307	3220
65°	3652	3137	3050
70°	3464	2911	2874
75°	3165	2687	2660
80°	2776	2415	2422
85°	2390	2199	2297

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4239 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	1.5
10°-20°	208.2	4.4
20°-30°	309.6	6.5
30°-40°	366.7	7.7
40°-50°	379.1	7.9
50°-60°	349.2	7.3
60°-70°	282.3	5.9
70°-80°	188.9	4.0
80°-90°	98.8	2.1
90°-100°	81.3	1.7
100°-110°	215.3	4.5
110°-120°	341.9	7.2
120°-130°	419.3	8.8
130°-140°	441.2	9.2
140°-150°	409.1	8.6
150°-160°	329.9	6.9
160°-170°	213.3	4.5
170°-180°	73.6	1.5
0°-30°	591.2	12.4
0°-40°	957.8	20.0
0°-60°	1686.1	35.3
0°-90°	2256.1	47.2
90°-120°	638.5	13.4
90°-150°	1908.2	39.9
90°-180°	2525.0	52.8
0°-180°	4781.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	775	775	775	775	775	
5°	775	774	768	774	774	74
15°	740	741	736	740	737	209
25°	672	675	670	673	669	310
35°	582	587	585	587	587	364
45°	480	488	492	497	498	370
55°	368	381	393	401	404	329
65°	254	271	290	301	304	252
75°	140	160	184	199	203	148
85°	42	67	94	110	116	44
90°	13	42	72	92	99	10
95°	43	61	65	84	90	48
105°	176	190	213	228	233	186
115°	322	330	350	361	362	319
125°	454	457	472	482	484	405
135°	564	566	570	579	580	434
145°	652	653	653	657	657	408
155°	718	714	715	717	712	331
165°	757	754	754	758	753	214
175°	774	771	772	776	771	74
180°	774	774	774	774	774	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	775.1	775.1	775.1	775.1	775.1
2.5°	777.3	775.8	770.5	775.8	775.1
5°	775.1	773.5	768.2	774.3	773.5
7.5°	769.7	769.0	763.7	769.0	768.2
10°	762.1	762.1	756.1	761.4	760.6
12.5°	751.5	752.3	747.7	751.5	749.2
15°	740.1	740.9	735.5	740.1	737.1
17.5°	725.7	727.2	721.9	725.7	723.4
20°	709.7	711.2	705.9	708.2	708.2
22.5°	691.5	694.5	688.4	691.5	689.2
25°	672.5	674.8	670.2	673.2	669.4
27.5°	652.0	655.0	649.7	652.0	650.4
30°	628.4	633.0	628.4	629.9	629.2
32.5°	607.1	610.9	607.9	609.4	608.6
35°	582.1	587.4	585.1	587.4	587.4
37.5°	557.7	562.3	561.5	564.6	563.8
40°	532.7	538.7	538.0	541.0	542.5
42.5°	505.3	513.7	515.9	519.7	519.7
45°	479.5	487.8	491.6	497.0	497.7
47.5°	452.9	460.5	466.6	474.2	475.7
50°	425.5	433.9	442.2	450.6	452.9
52.5°	396.6	407.3	417.9	427.0	428.6
55°	368.5	380.7	392.8	401.2	404.2
57.5°	339.7	354.1	367.8	376.9	379.2
60°	310.8	326.0	341.2	352.6	354.9
62.5°	282.7	297.9	314.6	327.5	330.5
65°	253.8	271.3	289.5	300.9	303.9
67.5°	227.2	243.9	262.2	275.8	279.6
70°	197.6	215.0	234.8	249.2	253.8
72.5°	168.7	186.9	209.0	224.9	228.0
75°	139.8	159.6	183.9	199.1	202.9
77.5°	111.7	134.5	157.3	174.0	177.0
80°	85.9	108.7	134.5	151.2	154.3
82.5°	62.3	86.6	113.2	129.2	135.3
85°	41.8	66.9	93.5	110.2	116.3
87.5°	26.6	50.9	76.7	94.2	99.5
90°	12.8	41.7	71.5	91.9	98.9
92.5°	21.5	38.4	68.5	88.1	93.9
95°	42.6	60.6	64.7	84.3	89.6
97.5°	70.5	92.3	62.7	79.9	85.8
100°	104.3	121.9	148.5	79.0	81.2
102.5°	138.5	155.2	179.9	196.3	152.6
105°	175.6	190.1	212.9	228.1	232.8
107.5°	213.9	224.5	247.8	263.5	265.7
110°	251.0	260.1	282.5	295.3	301.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	286.6	295.2	316.3	327.7	331.8
115°	321.5	329.7	349.9	361.3	362.5
117.5°	358.0	361.8	383.1	392.6	396.7
120°	392.4	394.2	413.4	425.1	426.8
122.5°	422.1	425.7	443.0	454.1	455.1
125°	453.6	457.0	472.2	482.0	484.0
127.5°	483.4	485.4	497.8	508.0	508.0
130°	510.9	513.0	524.3	533.1	534.1
132.5°	537.7	541.1	547.0	557.7	557.8
135°	563.5	566.3	570.4	579.2	579.5
137.5°	587.6	590.4	592.2	601.3	601.6
140°	610.5	611.6	611.7	621.3	620.8
142.5°	631.7	631.5	632.6	639.4	639.1
145°	652.4	652.7	652.7	657.1	656.6
147.5°	669.9	669.9	670.5	672.6	670.1
150°	687.2	686.0	687.2	688.3	684.5
152.5°	703.8	700.9	702.1	703.2	699.2
155°	717.6	714.1	715.3	717.0	712.4
157.5°	728.5	726.8	726.8	728.5	723.9
160°	740.0	736.5	737.1	739.4	734.8
162.5°	749.2	745.7	746.3	749.7	744.6
165°	757.2	753.8	754.3	757.8	753.2
167.5°	763.5	760.1	760.6	764.7	759.5
170°	768.7	764.7	765.2	769.8	764.7
172.5°	772.1	768.1	769.3	773.3	768.1
175°	774.4	771.0	771.5	776.1	771.0
177.5°	776.1	772.7	773.3	777.3	772.7
180°	774.4	774.4	774.4	774.4	774.4

(END OF REPORT)