

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: P1028082

Luminaire Tested: S125DIP-B610D375UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028082
REPORT IS A COMBINATION OF REPORTS P1002276 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D375UB35-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

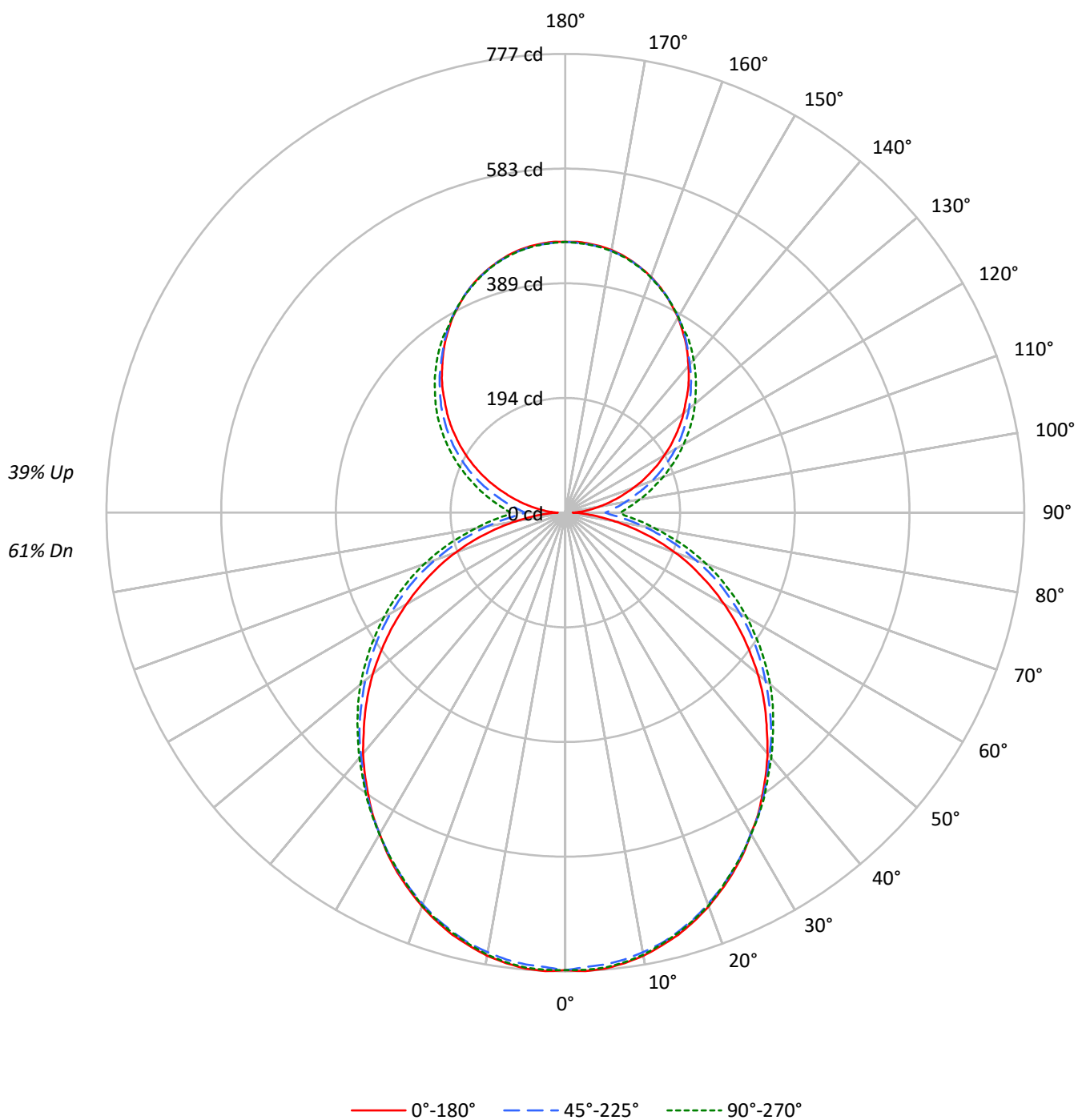
Lumens per Lamp: N/A
Luminaire Lumens: 3682.0 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 33.3
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	66	66	66
1	99	95	90	86	93	89	85	81	77	74	72	67	65	63	57	56	54
2	90	82	75	70	84	77	71	66	67	63	59	58	55	52	50	47	45
3	82	72	64	58	76	67	60	55	59	54	49	51	47	43	44	41	38
4	75	64	55	49	70	60	52	46	52	46	42	45	41	37	39	36	32
5	69	57	48	42	64	53	45	40	47	41	36	41	36	32	35	31	28
6	63	51	42	36	59	48	40	34	42	36	31	37	32	28	32	28	25
7	59	46	37	32	55	43	36	30	38	32	27	33	28	25	29	25	22
8	54	42	34	28	51	39	32	27	35	29	24	31	26	22	27	23	20
9	51	38	30	25	47	36	29	24	32	26	22	28	23	20	25	21	18
10	47	35	27	22	44	33	26	21	29	24	20	26	21	18	23	19	16

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	2.0
10°-20°	208.2	5.7
20°-30°	309.6	8.4
30°-40°	366.7	10.0
40°-50°	379.1	10.3
50°-60°	349.2	9.5
60°-70°	282.3	7.7
70°-80°	188.9	5.1
80°-90°	98.4	2.7
90°-100°	85.5	2.3
100°-110°	131.2	3.6
110°-120°	180.8	4.9
120°-130°	217.7	5.9
130°-140°	233.5	6.3
140°-150°	223.6	6.1
150°-160°	186.7	5.1
160°-170°	124.1	3.4
170°-180°	43.4	1.2
0°-30°	591.2	16.1
0°-40°	957.8	26.0
0°-60°	1686.1	45.8
0°-90°	2255.6	61.3
90°-120°	397.5	10.8
90°-150°	1072.2	29.1
90°-180°	1426.0	38.7
0°-180°	3682.0	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	40	68	87	94	10
95°	33	54	83	102	108	32
105°	88	102	127	144	151	94
115°	158	165	186	199	203	157
125°	228	229	244	256	259	204
135°	294	295	301	310	313	226
145°	355	355	356	360	362	221
155°	405	405	405	407	405	186
165°	440	440	440	441	439	124
175°	458	456	456	458	456	43
180°	459	459	459	459	459	

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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°	12.6	39.7	68.0	87.3	93.7
92.5°	21.3	45.2	75.0	94.2	100.2
95°	33.1	53.5	83.0	102.2	108.2
97.5°	44.8	63.5	93.5	111.6	117.3
100°	58.4	74.3	103.2	122.4	127.6
102.5°	72.9	89.1	114.5	133.3	138.8
105°	88.2	102.2	127.1	144.5	150.8
107.5°	105.0	117.4	141.3	157.5	162.0
110°	122.4	133.3	155.6	171.2	176.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.0	148.6	170.5	184.6	189.1
115°	158.5	165.2	185.6	198.9	203.2
117.5°	176.2	180.4	200.1	213.4	217.2
120°	193.4	197.4	215.3	228.2	231.3
122.5°	211.1	212.3	230.1	241.9	245.3
125°	227.5	229.0	244.5	255.9	259.4
127.5°	245.1	245.3	258.6	269.6	273.5
130°	261.1	262.1	273.5	283.8	286.8
132.5°	276.4	279.6	286.8	297.2	299.1
135°	293.5	295.0	300.6	310.5	312.9
137.5°	309.6	311.0	314.7	324.2	325.5
140°	324.2	326.0	327.8	336.9	338.1
142.5°	339.6	340.2	341.6	348.8	350.1
145°	354.6	355.2	356.3	360.1	362.0
147.5°	367.7	368.8	369.5	372.1	370.7
150°	381.6	381.3	382.7	382.7	382.8
152.5°	393.0	393.8	394.1	395.2	393.8
155°	404.8	404.8	405.2	406.6	404.8
157.5°	415.5	414.8	415.2	416.6	414.1
160°	424.8	423.7	424.1	425.5	423.7
162.5°	433.0	432.3	432.3	434.1	432.0
165°	440.2	439.5	439.8	441.2	439.1
167.5°	446.6	445.2	445.2	447.3	445.2
170°	451.6	450.2	450.2	452.3	449.8
172.5°	455.2	453.7	453.7	455.9	453.7
175°	457.7	456.2	456.2	458.4	455.9
177.5°	459.4	458.0	457.7	459.8	457.3
180°	458.7	458.7	458.7	458.7	458.7

(END OF REPORT)