

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: P1028081

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028081
REPORT IS A COMBINATION OF REPORTS P1002275 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-D
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

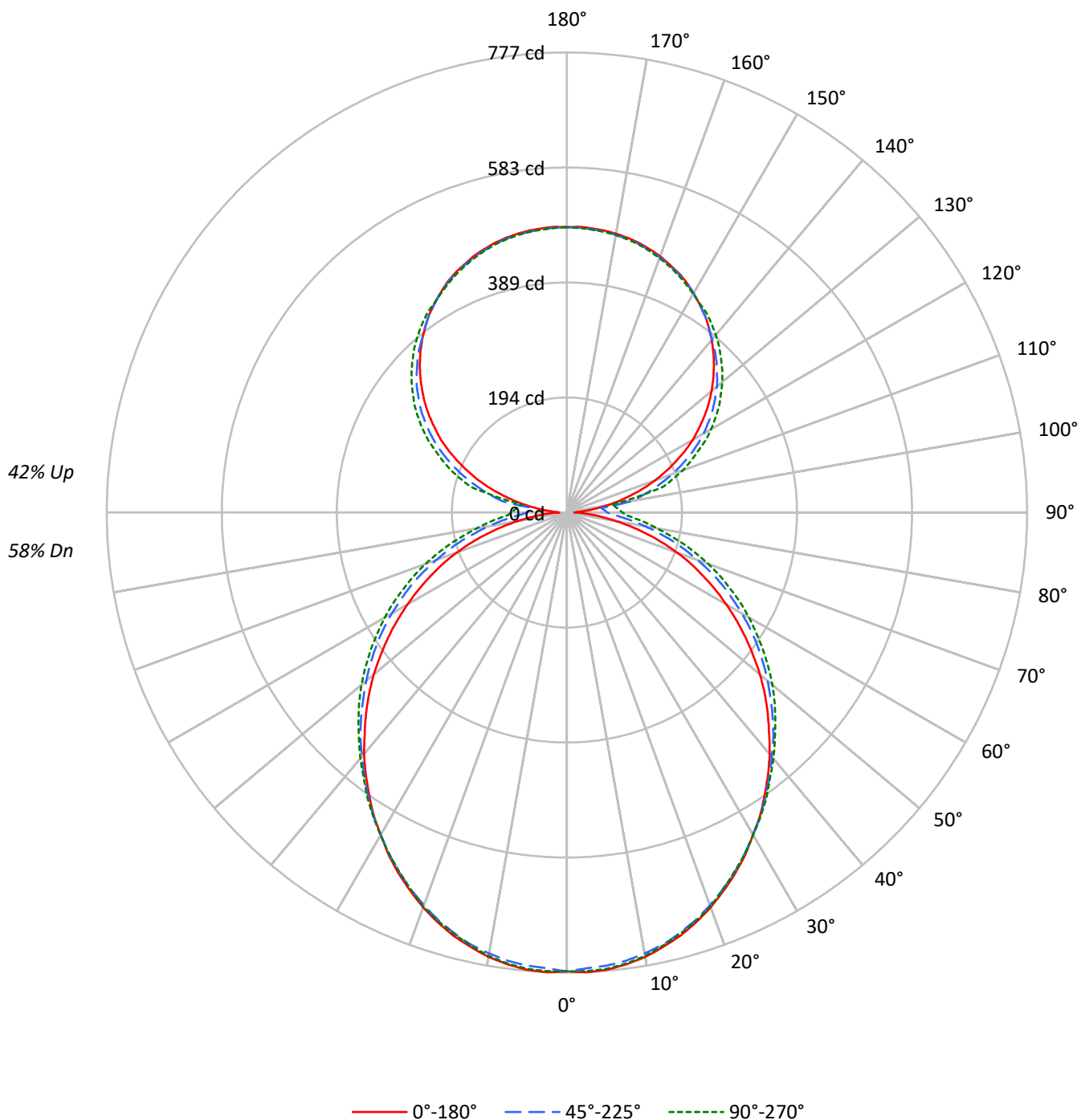
Lumens per Lamp: N/A
Luminaire Lumens: 3882.0 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	64	64	64
1	99	94	90	86	92	88	84	81	76	73	70	65	63	61	55	53	52
2	90	82	75	69	83	76	70	65	66	61	58	56	53	50	48	45	43
3	82	71	64	57	76	67	60	54	58	53	48	50	46	42	42	39	36
4	74	63	55	48	69	59	52	46	51	45	41	44	40	36	37	34	31
5	68	56	48	41	63	53	45	39	46	40	35	40	35	31	34	30	27
6	63	50	42	36	58	47	40	34	41	35	31	36	31	27	30	27	24
7	58	45	37	31	54	43	35	30	37	31	27	32	28	24	28	24	21
8	54	41	33	28	50	39	31	26	34	28	24	30	25	21	26	22	19
9	50	38	30	25	47	35	28	24	31	25	21	27	23	19	24	20	17
10	47	35	27	22	44	33	26	21	29	23	19	25	21	17	22	18	15

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	1.9
10°-20°	208.2	5.4
20°-30°	309.6	8.0
30°-40°	366.7	9.4
40°-50°	379.1	9.8
50°-60°	349.2	9.0
60°-70°	282.3	7.3
70°-80°	188.9	4.9
80°-90°	98.4	2.5
90°-100°	71.4	1.8
100°-110°	149.3	3.8
110°-120°	223.0	5.7
120°-130°	266.8	6.9
130°-140°	277.1	7.1
140°-150°	255.1	6.6
150°-160°	205.3	5.3
160°-170°	132.7	3.4
170°-180°	45.8	1.2
0°-30°	591.2	15.2
0°-40°	957.8	24.7
0°-60°	1686.1	43.4
0°-90°	2255.6	58.1
90°-120°	443.7	11.4
90°-150°	1242.6	32.0
90°-180°	1626.0	41.9
0°-180°	3882.0	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	9
95°	30	49	61	80	85	33
105°	112	126	148	164	168	118
115°	202	209	229	241	244	200
125°	283	285	300	311	314	253
135°	351	353	357	366	368	271
145°	406	406	406	410	411	254
155°	446	444	445	446	443	206
165°	471	469	469	472	469	133
175°	482	480	480	483	480	46
180°	482	482	482	482	482	

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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°	17.4	36.3	65.0	83.5	89.2
95°	30.3	48.9	61.2	79.7	85.0
97.5°	47.3	67.8	58.8	75.5	81.2
100°	68.1	85.0	110.8	73.5	76.6
102.5°	89.0	104.9	129.2	145.1	119.6
105°	111.8	125.5	148.3	163.5	168.4
107.5°	135.4	146.0	168.8	184.4	187.5
110°	158.2	167.3	189.3	202.7	208.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	180.3	188.3	209.2	221.4	226.0
115°	201.8	208.9	228.9	241.2	243.7
117.5°	224.2	228.0	248.4	259.2	263.8
120°	245.6	247.6	266.2	278.3	281.1
122.5°	263.8	266.4	283.4	294.9	297.3
125°	283.4	285.2	300.4	311.1	313.8
127.5°	301.7	302.6	315.2	325.9	327.6
130°	318.8	319.8	330.8	340.4	342.4
132.5°	335.1	337.3	343.8	354.5	355.7
135°	351.2	352.7	357.3	366.4	368.1
137.5°	366.2	367.7	370.0	379.1	380.4
140°	380.2	380.9	381.2	390.3	391.2
142.5°	393.4	392.9	393.7	400.5	401.4
145°	406.3	406.2	406.2	410.3	411.2
147.5°	416.9	416.9	417.2	419.1	418.1
150°	427.6	426.9	427.6	428.3	426.3
152.5°	438.0	436.2	436.9	437.6	435.1
155°	446.5	444.4	445.1	446.2	443.3
157.5°	453.3	452.2	452.2	453.3	450.5
160°	460.5	458.3	458.7	460.1	457.2
162.5°	466.2	464.0	464.4	466.5	463.3
165°	471.2	469.0	469.4	471.5	468.7
167.5°	475.1	473.0	473.3	475.8	472.6
170°	478.3	475.8	476.2	479.0	475.8
172.5°	480.5	478.0	478.7	481.2	478.0
175°	481.9	479.8	480.1	483.0	479.8
177.5°	483.0	480.8	481.2	483.7	480.8
180°	481.9	481.9	481.9	481.9	481.9

(END OF REPORT)