

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: P1028072

Luminaire Tested: S125DIP-B610D375UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028072
REPORT IS A COMBINATION OF REPORTS P1002266 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D375UB30-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

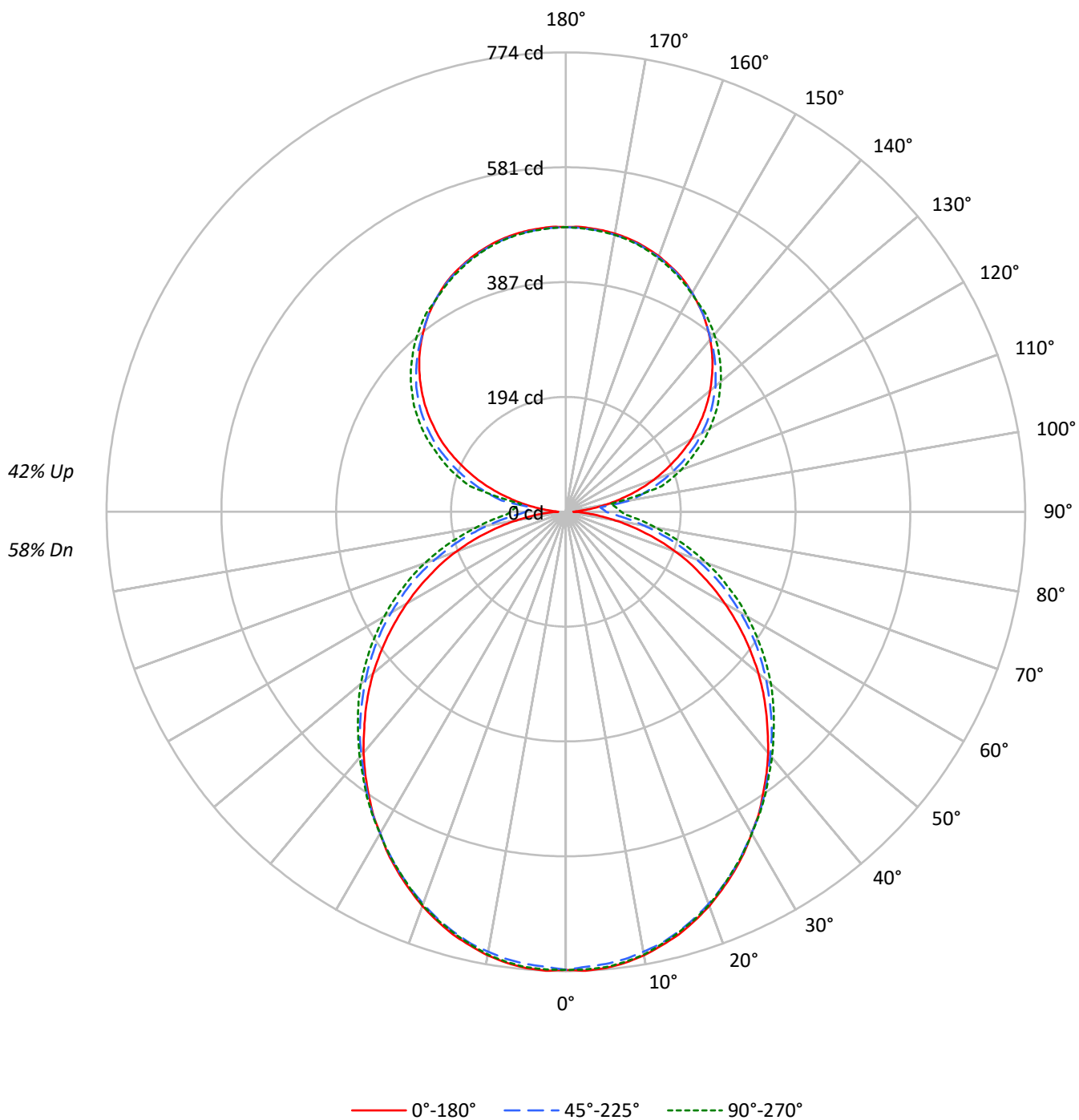
Lumens per Lamp: N/A
Luminaire Lumens: 3865.0 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

TEST NUMBER: P1028072

CATALOG NUMBER: S125DIP-B610D375UB30-4F0-XX-W2A-D

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°	4945	4945	4945
5°	4953	4841	4853
10°	4916	4743	4730
15°	4856	4628	4577
20°	4776	4489	4425
25°	4680	4342	4242
30°	4564	4181	4075
35°	4455	4032	3921
40°	4345	3876	3767
45°	4221	3740	3627
50°	4102	3593	3502
55°	3958	3453	3356
60°	3801	3293	3206
65°	3636	3124	3038
70°	3448	2898	2862
75°	3152	2675	2648
80°	2763	2404	2411
85°	2378	2189	2288

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4221 cd/sqm

TEST NUMBER: P1028072

CATALOG NUMBER: S125DIP-B610D375UB30-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	1.9
10°-20°	207.3	5.4
20°-30°	308.3	8.0
30°-40°	365.1	9.4
40°-50°	377.5	9.8
50°-60°	347.7	9.0
60°-70°	281.1	7.3
70°-80°	188.1	4.9
80°-90°	97.9	2.5
90°-100°	71.0	1.8
100°-110°	148.6	3.8
110°-120°	222.0	5.7
120°-130°	265.5	6.9
130°-140°	275.8	7.1
140°-150°	253.9	6.6
150°-160°	204.3	5.3
160°-170°	132.1	3.4
170°-180°	45.6	1.2
0°-30°	588.7	15.2
0°-40°	953.8	24.7
0°-60°	1679.1	43.4
0°-90°	2246.2	58.1
90°-120°	441.6	11.4
90°-150°	1236.8	32.0
90°-180°	1619.0	41.9
0°-180°	3865.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	772	770	765	771	770	73
15°	737	738	732	737	734	208
25°	670	672	667	670	667	308
35°	580	585	583	585	585	363
45°	478	486	490	495	496	368
55°	367	379	391	400	403	328
65°	253	270	288	300	303	251
75°	139	159	183	198	202	148
85°	42	67	93	110	116	43
90°	12	40	68	87	93	9
95°	30	49	61	79	85	33
105°	111	125	148	163	168	118
115°	201	208	228	240	242	199
125°	282	284	299	310	312	252
135°	350	351	356	365	366	270
145°	404	404	404	408	409	253
155°	444	442	443	444	441	205
165°	469	467	467	469	466	132
175°	480	478	478	481	478	46
180°	480	480	480	480	480	

TEST NUMBER: P1028072

CATALOG NUMBER: S125DIP-B610D375UB30-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	771.8	771.8	771.8	771.8	771.8
2.5°	774.1	772.6	767.3	772.6	771.8
5°	771.8	770.3	765.0	771.1	770.3
7.5°	766.5	765.8	760.5	765.8	765.0
10°	759.0	759.0	752.9	758.2	757.5
12.5°	748.4	749.1	744.6	748.4	746.1
15°	737.0	737.8	732.5	737.0	734.0
17.5°	722.6	724.2	718.9	722.6	720.4
20°	706.8	708.3	703.0	705.2	705.2
22.5°	688.6	691.6	685.6	688.6	686.3
25°	669.7	671.9	667.4	670.4	666.7
27.5°	649.2	652.3	647.0	649.2	647.7
30°	625.8	630.3	625.8	627.3	626.5
32.5°	604.6	608.4	605.4	606.9	606.1
35°	579.6	584.9	582.7	584.9	584.9
37.5°	555.4	560.0	559.2	562.2	561.5
40°	530.4	536.5	535.7	538.8	540.3
42.5°	503.2	511.5	513.8	517.6	517.6
45°	477.5	485.8	489.6	494.9	495.6
47.5°	451.0	458.6	464.6	472.2	473.7
50°	423.8	432.1	440.4	448.7	451.0
52.5°	395.0	405.6	416.2	425.3	426.8
55°	367.0	379.1	391.2	399.5	402.6
57.5°	338.2	352.6	366.2	375.3	377.6
60°	309.5	324.6	339.8	351.1	353.4
62.5°	281.5	296.6	313.3	326.1	329.2
65°	252.7	270.1	288.3	299.7	302.7
67.5°	226.3	242.9	261.1	274.7	278.5
70°	196.7	214.1	233.8	248.2	252.7
72.5°	168.0	186.1	208.1	224.0	227.0
75°	139.2	158.9	183.1	198.3	202.0
77.5°	111.2	133.9	156.6	173.3	176.3
80°	85.5	108.2	133.9	150.6	153.6
82.5°	62.0	86.3	112.7	128.6	134.7
85°	41.6	66.6	93.1	109.7	115.8
87.5°	26.5	50.7	76.4	93.8	99.1
90°	12.5	39.5	67.7	87.0	93.3
92.5°	17.4	36.1	64.7	83.2	88.8
95°	30.1	48.7	60.9	79.4	84.7
97.5°	47.1	67.4	58.6	75.2	80.9
100°	67.7	84.6	110.3	73.2	76.4
102.5°	88.7	104.4	128.6	144.4	119.1
105°	111.3	124.8	147.5	162.7	167.6
107.5°	134.8	145.3	168.0	183.5	186.6
110°	157.5	166.6	188.5	201.7	207.4



TEST NUMBER: P1028072

CATALOG NUMBER: S125DIP-B610D375UB30-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	179.5	187.4	208.1	220.4	225.0
115°	200.8	207.8	227.9	240.1	242.5
117.5°	223.2	227.0	247.3	258.0	262.5
120°	244.5	246.4	264.9	277.0	279.8
122.5°	262.5	265.1	282.1	293.5	295.9
125°	282.1	283.9	299.0	309.7	312.4
127.5°	300.2	301.2	313.8	324.4	326.1
130°	317.3	318.3	329.2	338.8	340.8
132.5°	333.6	335.7	342.2	352.8	354.1
135°	349.6	351.0	355.6	364.7	366.3
137.5°	364.5	365.9	368.2	377.3	378.5
140°	378.4	379.1	379.4	388.4	389.4
142.5°	391.5	391.1	391.8	398.6	399.5
145°	404.3	404.2	404.2	408.4	409.3
147.5°	414.9	414.9	415.3	417.1	416.1
150°	425.6	424.9	425.6	426.3	424.2
152.5°	435.9	434.1	434.8	435.5	433.0
155°	444.4	442.3	443.0	444.1	441.2
157.5°	451.2	450.1	450.1	451.2	448.3
160°	458.3	456.2	456.5	457.9	455.1
162.5°	464.0	461.8	462.2	464.3	461.1
165°	469.0	466.8	467.2	469.3	466.5
167.5°	472.9	470.7	471.1	473.6	470.4
170°	476.1	473.6	473.9	476.8	473.6
172.5°	478.2	475.7	476.4	478.9	475.7
175°	479.6	477.5	477.8	480.7	477.5
177.5°	480.7	478.6	478.9	481.4	478.6
180°	479.6	479.6	479.6	479.6	479.6

(END OF REPORT)