

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: P1028063

Luminaire Tested: S125DIP-B610D375UB27-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028063
REPORT IS A COMBINATION OF REPORTS P1002242 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D375UB27-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

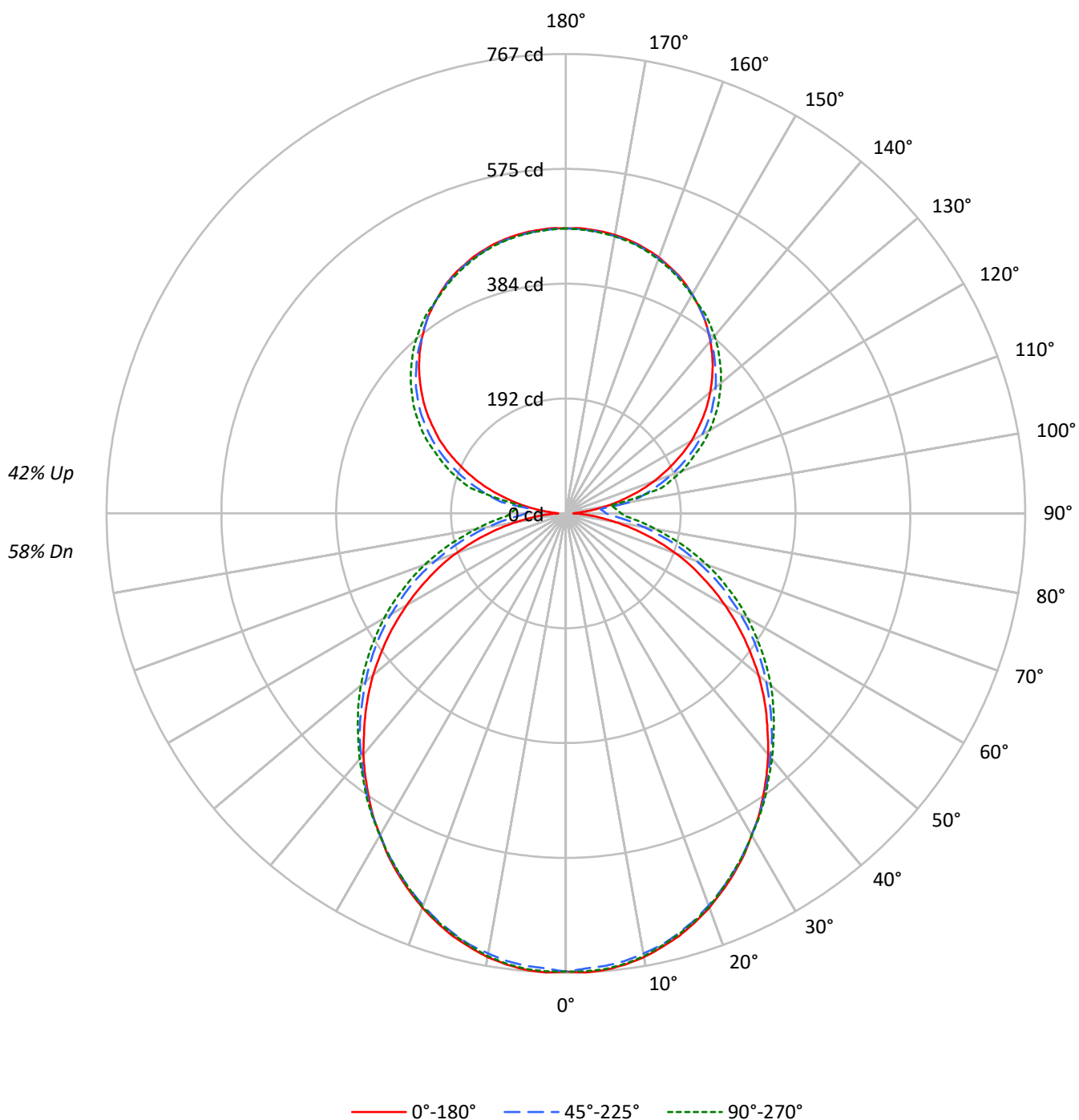
Lumens per Lamp: N/A
Luminaire Lumens: 3832.1 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1028063

CATALOG NUMBER: S125DIP-B610D375UB27-4F0-XX-W2A-D

Luminous Intensity Polar Plot



TEST NUMBER: P1028063

CATALOG NUMBER: S125DIP-B610D375UB27-4F0-XX-W2A-D

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°	4902	4902	4902
5°	4910	4799	4811
10°	4873	4701	4688
15°	4814	4588	4537
20°	4733	4450	4386
25°	4639	4303	4205
30°	4524	4144	4039
35°	4416	3996	3887
40°	4307	3842	3733
45°	4184	3708	3596
50°	4065	3561	3471
55°	3924	3423	3326
60°	3768	3264	3178
65°	3604	3097	3011
70°	3418	2874	2837
75°	3125	2652	2625
80°	2740	2384	2391
85°	2361	2170	2268

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4184 cd/sqm

TEST NUMBER: P1028063

CATALOG NUMBER: S125DIP-B610D375UB27-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	1.9
10°-20°	205.5	5.4
20°-30°	305.6	8.0
30°-40°	361.9	9.4
40°-50°	374.2	9.8
50°-60°	344.7	9.0
60°-70°	278.7	7.3
70°-80°	186.5	4.9
80°-90°	97.1	2.5
90°-100°	70.4	1.8
100°-110°	147.4	3.8
110°-120°	220.2	5.7
120°-130°	263.3	6.9
130°-140°	273.6	7.1
140°-150°	251.8	6.6
150°-160°	202.6	5.3
160°-170°	131.0	3.4
170°-180°	45.2	1.2
0°-30°	583.5	15.2
0°-40°	945.4	24.7
0°-60°	1664.3	43.4
0°-90°	2226.5	58.1
90°-120°	438.0	11.4
90°-150°	1226.8	32.0
90°-180°	1606.0	41.9
0°-180°	3832.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	765	765	765	765	765	
5°	765	764	758	764	764	73
15°	731	731	726	731	728	206
25°	664	666	662	664	661	306
35°	574	580	578	580	580	360
45°	473	482	485	490	491	365
55°	364	376	388	396	399	325
65°	250	268	286	297	300	249
75°	138	158	182	196	200	146
85°	41	66	92	109	115	43
90°	12	39	67	86	92	9
95°	30	48	60	79	84	32
105°	110	124	146	161	166	117
115°	199	206	226	238	240	197
125°	280	282	297	307	310	250
135°	347	348	353	362	363	267
145°	401	401	401	405	406	251
155°	441	439	439	440	438	203
165°	465	463	463	466	463	131
175°	476	474	474	477	474	45
180°	476	476	476	476	476	

TEST NUMBER: P1028063

CATALOG NUMBER: S125DIP-B610D375UB27-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	765.1	765.1	765.1	765.1	765.1
2.5°	767.3	765.8	760.6	765.8	765.1
5°	765.1	763.6	758.3	764.3	763.6
7.5°	759.8	759.1	753.8	759.1	758.3
10°	752.3	752.3	746.3	751.6	750.8
12.5°	741.8	742.6	738.1	741.8	739.6
15°	730.6	731.3	726.1	730.6	727.6
17.5°	716.3	717.8	712.5	716.3	714.0
20°	700.5	702.0	696.8	699.0	699.0
22.5°	682.5	685.5	679.5	682.5	680.3
25°	663.8	666.0	661.5	664.5	660.8
27.5°	643.5	646.5	641.3	643.5	642.0
30°	620.3	624.8	620.3	621.8	621.0
32.5°	599.3	603.0	600.0	601.5	600.8
35°	574.5	579.8	577.5	579.8	579.8
37.5°	550.5	555.0	554.3	557.3	556.5
40°	525.8	531.8	531.0	534.0	535.5
42.5°	498.8	507.0	509.3	513.0	513.0
45°	473.3	481.5	485.3	490.5	491.3
47.5°	447.0	454.5	460.5	468.0	469.5
50°	420.0	428.3	436.5	444.8	447.0
52.5°	391.5	402.0	412.5	421.5	423.0
55°	363.8	375.8	387.8	396.0	399.0
57.5°	335.3	349.5	363.0	372.0	374.3
60°	306.8	321.8	336.8	348.0	350.3
62.5°	279.0	294.0	310.5	323.3	326.3
65°	250.5	267.8	285.8	297.0	300.0
67.5°	224.3	240.8	258.8	272.3	276.0
70°	195.0	212.3	231.8	246.0	250.5
72.5°	166.5	184.5	206.3	222.0	225.0
75°	138.0	157.5	181.5	196.5	200.3
77.5°	110.3	132.8	155.3	171.8	174.8
80°	84.8	107.3	132.8	149.3	152.3
82.5°	61.5	85.5	111.8	127.5	133.5
85°	41.3	66.0	92.3	108.8	114.8
87.5°	26.3	50.3	75.8	93.0	98.3
90°	12.4	39.2	67.1	86.2	92.5
92.5°	17.2	35.8	64.1	82.4	88.1
95°	29.9	48.3	60.4	78.7	83.9
97.5°	46.7	66.8	58.1	74.6	80.2
100°	67.2	83.9	109.4	72.6	75.7
102.5°	87.9	103.6	127.5	143.2	118.1
105°	110.5	123.9	146.4	161.4	166.2
107.5°	133.7	144.2	166.7	182.0	185.1
110°	156.2	165.2	186.9	200.1	205.7



TEST NUMBER: P1028063

CATALOG NUMBER: S125DIP-B610D375UB27-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	178.1	185.9	206.5	218.6	223.1
115°	199.2	206.2	226.1	238.2	240.5
117.5°	221.4	225.1	245.3	255.9	260.5
120°	242.5	244.4	262.7	274.7	277.5
122.5°	260.4	263.0	279.8	291.1	293.5
125°	279.8	281.6	296.6	307.2	309.8
127.5°	297.8	298.8	311.2	321.7	323.4
130°	314.7	315.7	326.6	336.0	338.0
132.5°	330.9	333.0	339.4	349.9	351.2
135°	346.7	348.2	352.6	361.7	363.3
137.5°	361.5	363.0	365.3	374.3	375.5
140°	375.3	376.0	376.4	385.4	386.2
142.5°	388.4	387.9	388.6	395.4	396.3
145°	401.0	401.0	401.0	405.1	406.0
147.5°	411.5	411.5	411.9	413.7	412.8
150°	422.1	421.4	422.1	422.8	420.8
152.5°	432.3	430.6	431.3	432.0	429.5
155°	440.8	438.7	439.4	440.5	437.6
157.5°	447.5	446.4	446.4	447.5	444.7
160°	454.6	452.4	452.8	454.2	451.4
162.5°	460.2	458.1	458.4	460.6	457.4
165°	465.1	463.0	463.4	465.5	462.7
167.5°	469.0	466.9	467.3	469.7	466.5
170°	472.2	469.7	470.1	472.9	469.7
172.5°	474.3	471.8	472.5	475.0	471.8
175°	475.7	473.6	474.0	476.8	473.6
177.5°	476.8	474.7	475.0	477.5	474.7
180°	475.7	475.7	475.7	475.7	475.7

(END OF REPORT)