

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: P1028064

Luminaire Tested: S125DIP-B610D375UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028064
REPORT IS A COMBINATION OF REPORTS P1002243 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-D1
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

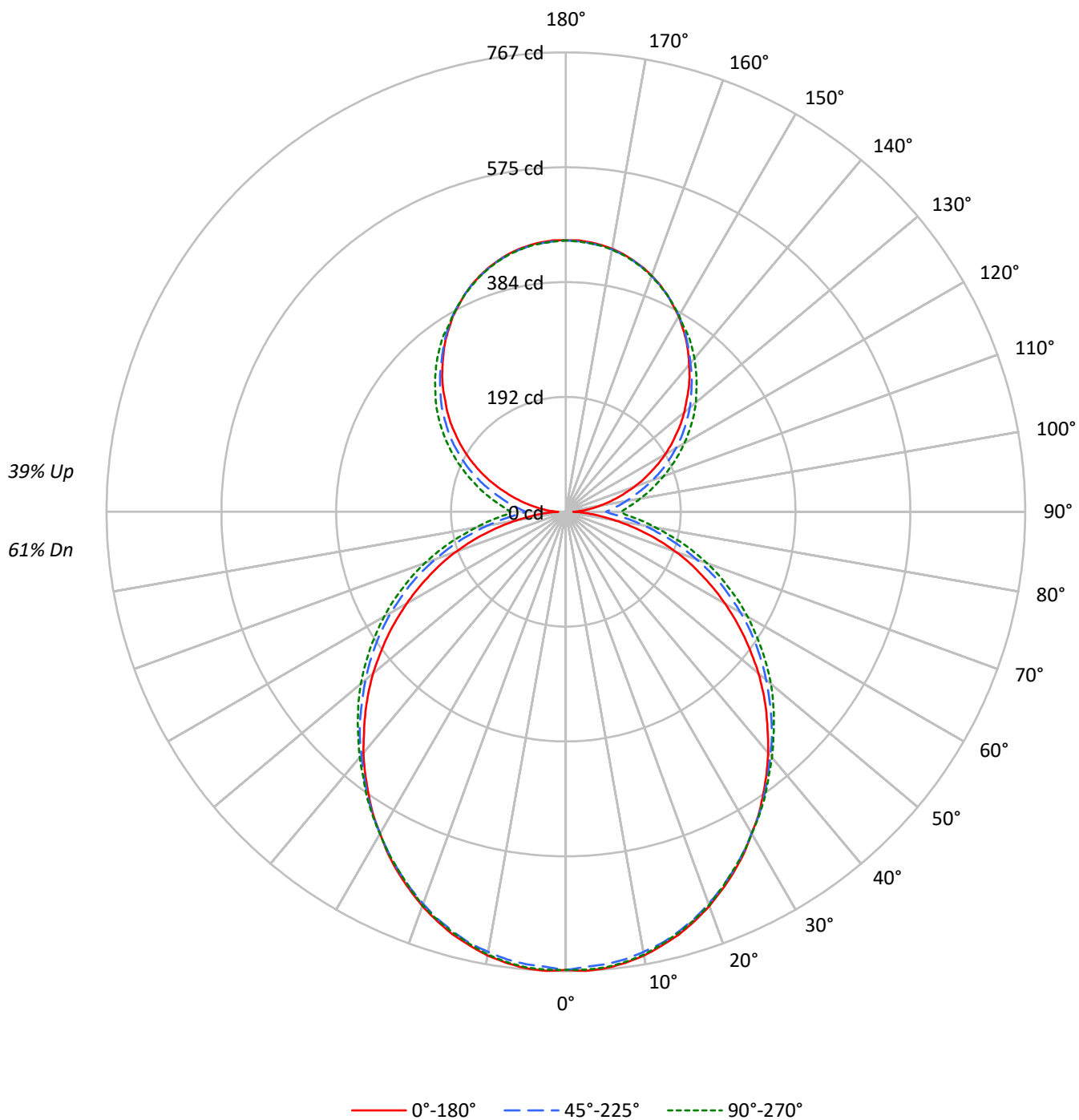
Lumens per Lamp: N/A
Luminaire Lumens: 3635.2 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	35	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°	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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	2.0
10°-20°	205.5	5.7
20°-30°	305.6	8.4
30°-40°	361.9	10.0
40°-50°	374.2	10.3
50°-60°	344.7	9.5
60°-70°	278.7	7.7
70°-80°	186.5	5.1
80°-90°	97.1	2.7
90°-100°	84.4	2.3
100°-110°	129.5	3.6
110°-120°	178.6	4.9
120°-130°	215.0	5.9
130°-140°	230.5	6.3
140°-150°	220.8	6.1
150°-160°	184.3	5.1
160°-170°	122.5	3.4
170°-180°	42.9	1.2
0°-30°	583.5	16.1
0°-40°	945.4	26.0
0°-60°	1664.3	45.8
0°-90°	2226.5	61.2
90°-120°	392.6	10.8
90°-150°	1058.9	29.1
90°-180°	1409.0	38.8
0°-180°	3635.2	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	10
95°	33	53	82	101	107	32
105°	87	101	126	143	149	93
115°	156	163	183	196	201	155
125°	225	226	242	253	256	201
135°	290	291	297	307	309	223
145°	350	351	352	356	358	219
155°	400	400	400	402	400	184
165°	435	434	434	436	434	123
175°	452	450	450	453	450	43
180°	453	453	453	453	453	

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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°	21.1	44.6	74.0	93.0	99.0
95°	32.7	52.9	81.9	100.9	106.8
97.5°	44.3	62.6	92.3	110.2	115.8
100°	57.7	73.4	101.9	120.9	126.1
102.5°	72.0	88.1	113.0	131.6	137.1
105°	87.2	100.9	125.6	142.7	148.9
107.5°	103.7	115.9	139.5	155.5	160.0
110°	120.9	131.7	153.8	169.0	174.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	139.3	146.7	168.4	182.2	186.7
115°	156.4	163.2	183.4	196.5	200.7
117.5°	174.1	178.1	197.6	210.7	214.6
120°	191.0	195.0	212.6	225.3	228.4
122.5°	208.5	209.7	227.2	238.9	242.3
125°	224.7	226.2	241.5	252.8	256.2
127.5°	242.0	242.3	255.4	266.3	270.1
130°	257.9	258.8	270.1	280.2	283.3
132.5°	272.9	276.1	283.3	293.4	295.4
135°	289.9	291.3	296.8	306.6	308.9
137.5°	305.7	307.1	310.9	320.2	321.4
140°	320.2	322.0	323.7	332.7	334.0
142.5°	335.4	336.0	337.4	344.5	345.8
145°	350.2	350.8	351.8	355.6	357.6
147.5°	363.1	364.2	364.9	367.4	366.1
150°	376.9	376.5	377.9	377.9	378.0
152.5°	388.1	388.8	389.2	390.3	388.8
155°	399.8	399.8	400.1	401.5	399.8
157.5°	410.3	409.6	410.0	411.4	408.9
160°	419.5	418.5	418.8	420.2	418.5
162.5°	427.6	426.9	426.9	428.7	426.6
165°	434.7	434.0	434.3	435.7	433.6
167.5°	441.0	439.6	439.6	441.7	439.6
170°	446.0	444.5	444.5	446.7	444.2
172.5°	449.5	448.1	448.1	450.2	448.1
175°	451.9	450.5	450.5	452.7	450.2
177.5°	453.7	452.3	451.9	454.1	451.6
180°	453.0	453.0	453.0	453.0	453.0

(END OF REPORT)