

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: P1028065

Luminaire Tested: S125DIP-B610D375UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028065
REPORT IS A COMBINATION OF REPORTS P1002244 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D375UB27-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

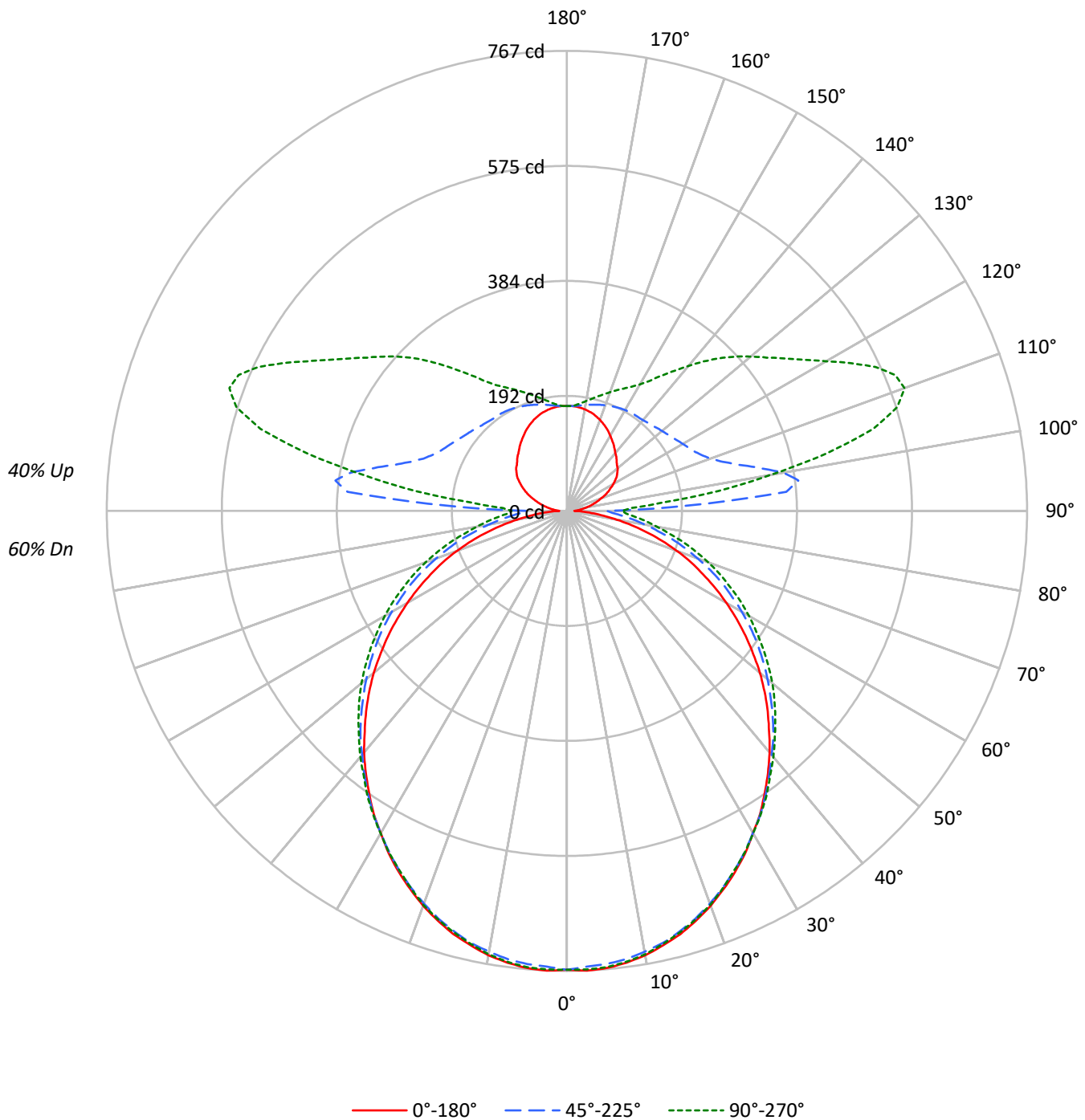
Lumens per Lamp: N/A
Luminaire Lumens: 3686.8 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	102	102	102	102	89	89	89	77	77	77	66	66	66
1	99	94	90	86	92	88	85	81	77	74	71	66	64	62	57	55	54
2	90	82	75	70	84	77	71	66	67	62	58	58	54	51	49	47	45
3	82	72	64	58	76	67	60	55	59	53	49	51	47	43	43	40	38
4	75	63	55	49	70	59	52	46	52	46	41	45	40	37	39	35	32
5	69	56	48	42	64	53	45	40	46	40	36	40	36	32	35	31	28
6	63	51	42	36	59	48	40	34	42	36	31	36	31	28	31	28	24
7	58	46	37	32	54	43	35	30	38	32	27	33	28	24	29	25	22
8	54	41	33	28	51	39	32	27	35	29	24	30	25	22	26	22	19
9	51	38	30	25	47	36	29	24	32	26	22	28	23	20	24	20	17
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	5.6
20°-30°	305.6	8.3
30°-40°	361.9	9.8
40°-50°	374.2	10.1
50°-60°	344.7	9.3
60°-70°	278.7	7.6
70°-80°	186.5	5.1
80°-90°	97.1	2.6
90°-100°	186.0	5.0
100°-110°	313.5	8.5
110°-120°	282.3	7.7
120°-130°	221.9	6.0
130°-140°	172.7	4.7
140°-150°	126.7	3.4
150°-160°	88.3	2.4
160°-170°	52.0	1.4
170°-180°	16.9	0.5
0°-30°	583.5	15.8
0°-40°	945.4	25.6
0°-60°	1664.3	45.1
0°-90°	2226.5	60.4
90°-120°	781.8	21.2
90°-150°	1303.1	35.3
90°-180°	1460.0	39.6
0°-180°	3686.8	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°	21	64	367	213	159	20
105°	47	74	297	560	529	49
115°	76	96	234	485	568	75
125°	102	118	214	381	443	90
135°	117	140	201	311	360	91
145°	136	154	196	248	275	85
155°	154	165	191	216	225	71
165°	168	172	183	194	197	47
175°	174	174	176	178	177	17
180°	175	175	175	175	175	

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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	92.1
92.5°	15.8	61.2	199.2	112.6	106.4
95°	21.4	63.6	367.1	213.0	159.3
97.5°	27.0	64.2	389.2	323.5	254.3
100°	33.0	66.6	366.3	425.5	343.3
102.5°	39.6	70.6	329.8	511.2	443.8
105°	46.6	74.5	296.9	559.6	528.6
107.5°	53.2	79.4	272.0	571.2	577.8
110°	60.6	84.8	254.6	553.4	598.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	68.8	90.1	243.1	520.6	592.1
115°	75.7	95.6	234.5	485.0	567.6
117.5°	82.1	101.2	228.3	451.6	533.2
120°	89.1	107.4	223.2	423.8	499.1
122.5°	95.7	112.6	218.4	400.2	468.6
125°	101.7	117.9	214.0	381.1	443.0
127.5°	105.9	123.8	210.3	363.6	419.9
130°	110.5	130.2	207.3	346.6	400.3
132.5°	113.2	135.8	204.3	328.6	380.7
135°	117.1	139.9	201.3	310.7	360.0
137.5°	122.1	144.2	199.5	292.7	338.0
140°	125.6	148.0	197.5	276.0	315.6
142.5°	130.5	150.7	196.4	261.2	294.6
145°	135.5	154.2	196.0	248.0	275.4
147.5°	140.0	157.4	195.3	236.8	257.2
150°	144.5	160.2	194.2	228.1	243.3
152.5°	149.5	163.0	192.8	221.9	233.4
155°	153.7	165.4	191.1	216.0	225.3
157.5°	157.6	167.6	189.3	210.3	217.9
160°	161.5	169.4	187.5	204.6	210.5
162.5°	164.6	171.2	185.4	199.6	203.8
165°	167.8	172.4	183.3	194.4	197.4
167.5°	169.9	173.1	181.2	189.7	191.4
170°	172.0	174.0	179.4	185.0	186.1
172.5°	173.4	174.3	177.3	181.4	181.2
175°	174.5	174.5	175.9	178.0	177.3
177.5°	175.2	174.5	174.9	175.9	174.9
180°	174.9	174.9	174.9	174.9	174.9

(END OF REPORT)