

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: P1027890

Luminaire Tested: S125DIP-B375D610UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027890
REPORT IS A COMBINATION OF REPORTS P1002006 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D610UB27-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

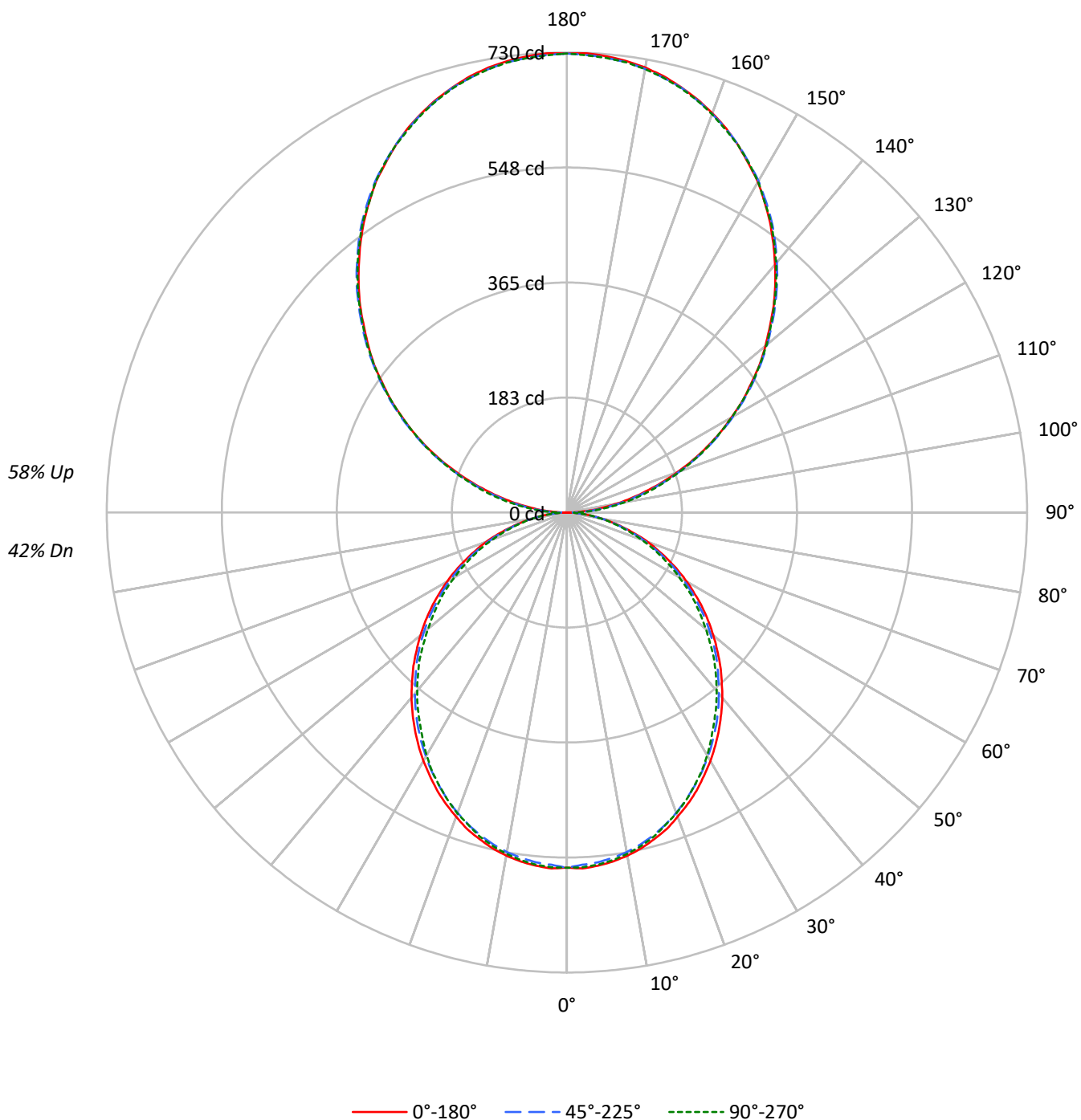
Lumens per Lamp: N/A
Luminaire Lumens: 3501.0 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 28.4
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49
1	96	92	88	84	87	84	80	77	69	67	65	55	54	52	43	42	41
2	87	80	74	69	79	73	68	64	60	57	53	49	46	44	38	36	34
3	80	70	63	57	72	64	58	53	53	49	45	43	40	37	33	31	29
4	73	62	54	48	66	57	50	45	47	42	38	38	35	32	30	27	25
5	67	55	47	41	61	51	44	38	42	37	33	34	30	27	27	24	22
6	61	50	41	36	56	46	38	33	38	33	29	31	27	24	24	22	19
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17
8	53	40	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15
9	49	37	29	24	45	34	27	23	29	24	20	24	20	17	19	16	14
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3611	3611	3611
5°	3611	3528	3534
10°	3581	3446	3436
15°	3534	3350	3320
20°	3471	3238	3187
25°	3402	3115	3045
30°	3321	2988	2894
35°	3232	2855	2726
40°	3142	2713	2577
45°	3043	2575	2418
50°	2935	2419	2233
55°	2828	2247	2063
60°	2700	2065	1865
65°	2547	1855	1660
70°	2391	1614	1424
75°	2131	1330	1151
80°	1816	993	848
85°	1401	588	466

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3043 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	1.5
10°-20°	150.2	4.3
20°-30°	221.8	6.3
30°-40°	258.8	7.4
40°-50°	259.9	7.4
50°-60°	228.1	6.5
60°-70°	169.9	4.9
70°-80°	97.1	2.8
80°-90°	29.1	0.8
90°-100°	48.4	1.4
100°-110°	143.9	4.1
110°-120°	244.0	7.0
120°-130°	321.3	9.2
130°-140°	360.0	10.3
140°-150°	352.9	10.1
150°-160°	296.4	8.5
160°-170°	197.0	5.6
170°-180°	69.0	2.0
0°-30°	425.2	12.1
0°-40°	684.0	19.5
0°-60°	1172.0	33.5
0°-90°	1468.1	41.9
90°-120°	436.4	12.5
90°-150°	1470.5	42.0
90°-180°	2033.0	58.1
0°-180°	3501.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	564	564	564	564	564	
5°	563	562	557	561	561	53
15°	536	535	530	532	532	151
25°	487	485	479	480	478	224
35°	420	419	412	410	407	263
45°	344	342	337	332	330	265
55°	262	261	255	251	248	234
65°	177	176	171	167	165	176
75°	94	93	91	90	88	100
85°	24	25	25	24	24	27
90°	1	5	9	12	14	4
95°	37	38	44	48	49	39
105°	129	132	136	139	141	138
115°	244	247	248	247	247	242
125°	356	360	360	359	359	319
135°	464	467	468	468	465	357
145°	562	564	566	566	564	351
155°	643	643	643	646	643	296
165°	699	698	698	701	697	197
175°	727	724	724	728	724	69
180°	728	728	728	728	728	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	563.6	563.6	563.6	563.6	563.6
2.5°	565.4	564.1	559.6	564.1	563.6
5°	562.7	561.9	557.4	561.4	561.0
7.5°	558.7	557.8	552.9	556.9	556.5
10°	552.9	552.0	547.1	550.7	550.3
12.5°	545.8	544.0	539.6	542.2	542.2
15°	536.4	535.1	530.2	532.4	532.4
17.5°	526.6	524.4	519.5	522.2	519.9
20°	513.7	512.8	507.0	510.1	507.9
22.5°	500.8	499.0	493.6	495.4	494.1
25°	486.9	484.7	478.9	479.8	478.5
27.5°	470.9	469.5	463.7	464.2	462.9
30°	455.3	453.9	447.3	446.4	445.0
32.5°	438.3	436.1	430.3	428.5	425.8
35°	420.5	418.7	412.5	410.2	406.7
37.5°	402.2	400.0	394.2	391.1	388.8
40°	383.5	381.3	375.0	371.0	369.7
42.5°	363.4	361.6	355.4	351.8	349.6
45°	344.2	342.5	337.1	331.8	330.4
47.5°	323.3	323.7	317.0	311.7	308.6
50°	303.2	301.9	296.5	290.7	287.6
52.5°	282.7	281.8	276.0	271.1	267.5
55°	262.2	260.9	254.6	250.6	247.5
57.5°	240.3	239.9	234.6	229.2	227.9
60°	219.8	218.1	213.1	208.7	205.6
62.5°	198.4	197.1	193.1	188.2	185.9
65°	177.0	176.1	171.2	167.2	165.4
67.5°	156.1	154.3	150.7	147.2	146.3
70°	136.4	134.2	130.2	127.5	125.7
72.5°	115.0	113.7	111.5	108.4	106.6
75°	94.1	93.2	91.0	89.6	87.8
77.5°	74.5	74.0	72.7	71.8	70.5
80°	56.2	56.2	55.3	54.8	54.0
82.5°	40.1	39.2	39.2	38.3	38.3
85°	24.5	25.0	25.0	24.5	23.6
87.5°	12.0	12.0	11.6	11.6	10.7
90°	0.6	5.1	9.1	11.9	13.6
92.5°	17.0	19.8	24.9	28.9	30.0
95°	36.8	38.0	43.6	47.6	48.7
97.5°	56.7	57.3	65.2	68.6	69.2
100°	79.4	79.4	86.7	91.8	93.0
102.5°	103.7	106.6	109.4	115.1	116.8
105°	129.2	132.1	135.5	138.9	140.6
107.5°	157.0	159.8	162.7	164.4	164.4
110°	185.9	188.8	190.5	192.2	191.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	215.4	216.5	218.8	219.4	218.2
115°	244.3	246.6	247.7	247.1	246.6
117.5°	273.8	274.3	275.5	276.0	273.8
120°	301.0	303.8	304.4	304.4	302.1
122.5°	330.5	331.0	332.7	332.2	330.5
125°	356.5	359.9	360.5	359.4	358.8
127.5°	385.4	387.1	387.7	387.1	386.0
130°	411.0	413.8	414.9	414.4	413.2
132.5°	436.5	441.6	441.0	440.4	438.7
135°	463.7	467.1	467.6	467.6	465.4
137.5°	489.2	492.6	493.7	494.3	491.4
140°	513.6	516.4	518.1	519.2	516.4
142.5°	537.9	540.2	542.5	543.0	540.2
145°	561.7	564.0	565.7	565.7	564.0
147.5°	583.8	585.5	586.7	588.4	583.8
150°	605.9	605.4	607.6	607.6	606.5
152.5°	624.1	625.2	625.8	627.5	625.2
155°	642.8	642.8	643.4	645.6	642.8
157.5°	659.8	658.7	659.2	661.5	657.5
160°	674.5	672.8	673.4	675.7	672.8
162.5°	687.6	686.4	686.4	689.3	685.9
165°	698.9	697.8	698.3	700.6	697.2
167.5°	709.1	706.8	706.8	710.2	706.8
170°	717.0	714.8	714.8	718.2	714.2
172.5°	722.7	720.5	720.5	723.9	720.5
175°	726.7	724.4	724.4	727.8	723.9
177.5°	729.5	727.3	726.7	730.1	726.1
180°	728.4	728.4	728.4	728.4	728.4

(END OF REPORT)