

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: P1027891

Luminaire Tested: S125DIP-B375D610UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027891
REPORT IS A COMBINATION OF REPORTS P1002007 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D610UB27-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

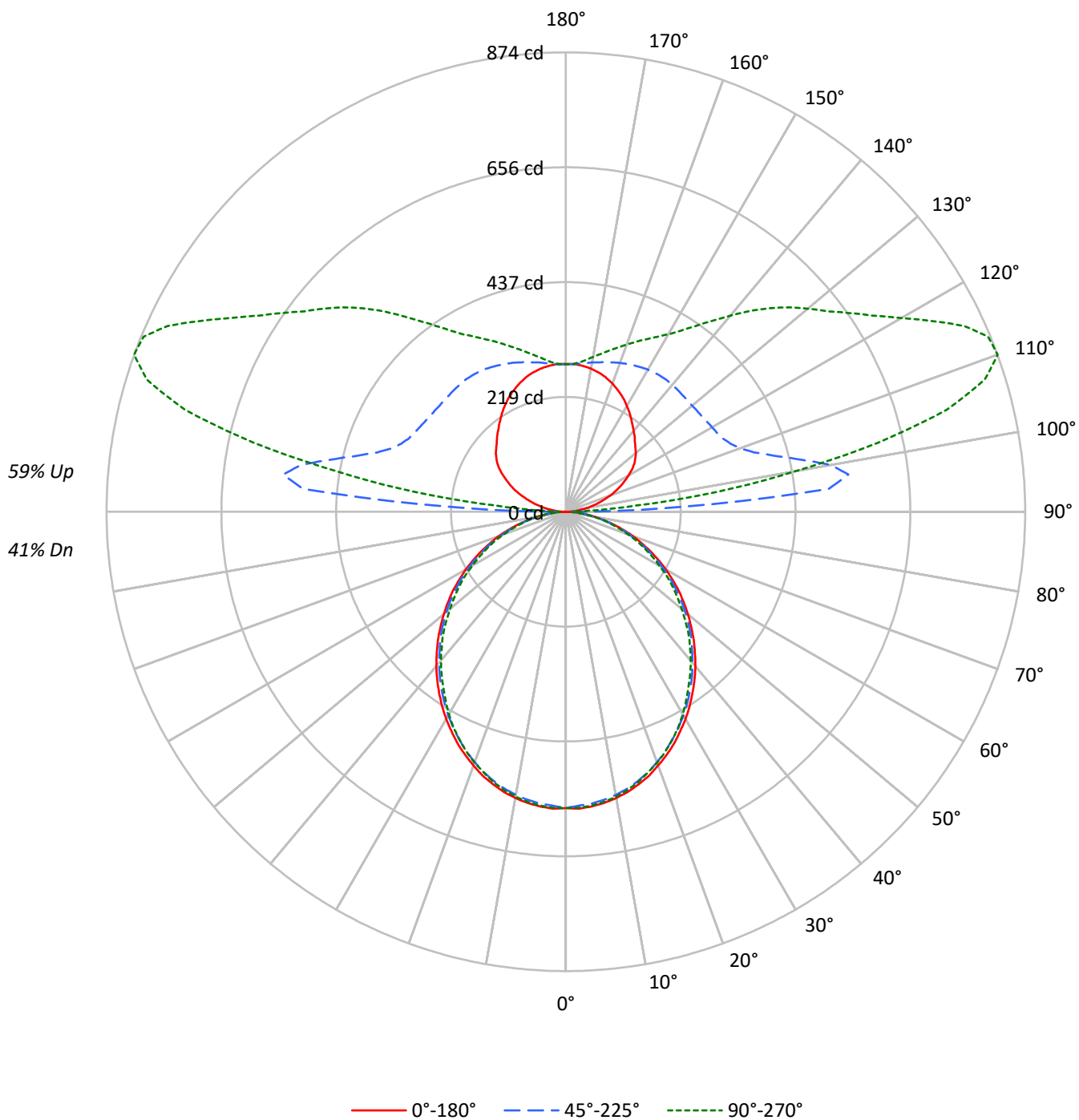
Lumens per Lamp: N/A
Luminaire Lumens: 3583.3 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	78	78	78	62	62	62	48	48	48
1	96	91	88	84	87	83	80	77	69	66	64	55	53	52	42	41	40
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	37	35	34
3	79	70	63	57	72	64	58	53	53	48	45	42	39	37	33	31	29
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	24	22
6	61	49	41	36	56	45	38	33	38	32	28	31	27	24	24	21	19
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17
8	52	40	33	27	48	37	30	26	31	26	22	25	21	19	20	17	15
9	49	37	29	24	44	34	27	23	28	23	20	23	19	17	18	16	14
10	46	34	27	22	42	31	25	20	26	21	18	22	18	15	17	14	12

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	4.2
20°-30°	221.8	6.2
30°-40°	258.8	7.2
40°-50°	259.9	7.3
50°-60°	228.1	6.4
60°-70°	169.9	4.7
70°-80°	97.1	2.7
80°-90°	29.1	0.8
90°-100°	211.6	5.9
100°-110°	439.6	12.3
110°-120°	410.6	11.5
120°-130°	332.2	9.3
130°-140°	267.0	7.4
140°-150°	201.5	5.6
150°-160°	141.9	4.0
160°-170°	83.6	2.3
170°-180°	27.2	0.8
0°-30°	425.2	11.9
0°-40°	684.0	19.1
0°-60°	1172.0	32.7
0°-90°	1468.1	41.0
90°-120°	1061.9	29.6
90°-150°	1862.5	52.0
90°-180°	2115.0	59.0
0°-180°	3583.3	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	13	3
95°	19	55	502	228	133	19
105°	64	90	411	809	751	67
115°	114	138	330	711	836	113
125°	159	186	316	566	659	141
135°	186	224	314	474	547	144
145°	216	248	315	392	432	136
155°	247	266	307	347	362	114
165°	270	277	295	312	317	76
175°	280	280	283	286	285	27
180°	281	281	281	281	281	

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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	13.0
92.5°	8.5	46.5	226.1	60.4	41.9
95°	18.7	55.2	502.0	227.8	133.2
97.5°	28.9	59.8	542.2	411.4	291.8
100°	39.7	68.6	511.7	581.3	442.0
102.5°	51.6	78.5	457.8	725.2	609.7
105°	64.0	89.6	410.8	808.8	750.8
107.5°	75.9	101.2	375.7	832.4	835.8
110°	89.0	113.4	352.4	810.0	874.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	102.0	125.5	338.8	763.2	869.7
115°	114.5	138.0	329.8	710.8	836.3
117.5°	125.8	150.7	324.7	663.2	785.9
120°	137.1	162.9	321.3	623.2	737.2
122.5°	149.0	174.8	318.4	591.2	694.1
125°	158.7	185.8	316.2	565.5	659.0
127.5°	166.6	196.6	315.0	543.4	626.7
130°	173.9	206.8	313.9	521.0	601.2
132.5°	179.6	215.8	313.9	497.0	575.7
135°	185.8	223.6	313.9	474.0	547.3
137.5°	193.8	230.6	314.5	449.9	517.9
140°	200.6	236.6	315.0	427.8	486.7
142.5°	208.5	242.2	315.6	408.8	457.8
145°	216.4	247.9	315.0	392.4	431.8
147.5°	224.9	253.0	313.9	378.2	408.5
150°	232.3	257.5	312.2	366.6	389.8
152.5°	240.2	262.0	309.9	356.7	375.1
155°	247.0	265.8	307.1	347.0	362.1
157.5°	253.3	269.4	304.3	338.0	350.2
160°	259.5	272.2	301.4	328.9	338.3
162.5°	264.6	275.1	298.0	320.7	327.5
165°	269.7	277.1	294.6	312.5	317.3
167.5°	273.1	278.2	291.2	304.8	307.7
170°	276.5	279.6	288.4	297.4	299.2
172.5°	278.8	280.2	285.0	291.5	291.2
175°	280.5	280.5	282.7	286.1	285.0
177.5°	281.6	280.5	281.0	282.7	281.0
180°	281.0	281.0	281.0	281.0	281.0

(END OF REPORT)