

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: P1027900

Luminaire Tested: S125DIP-B375D610UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027900
REPORT IS A COMBINATION OF REPORTS P1002031 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D610UB30-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

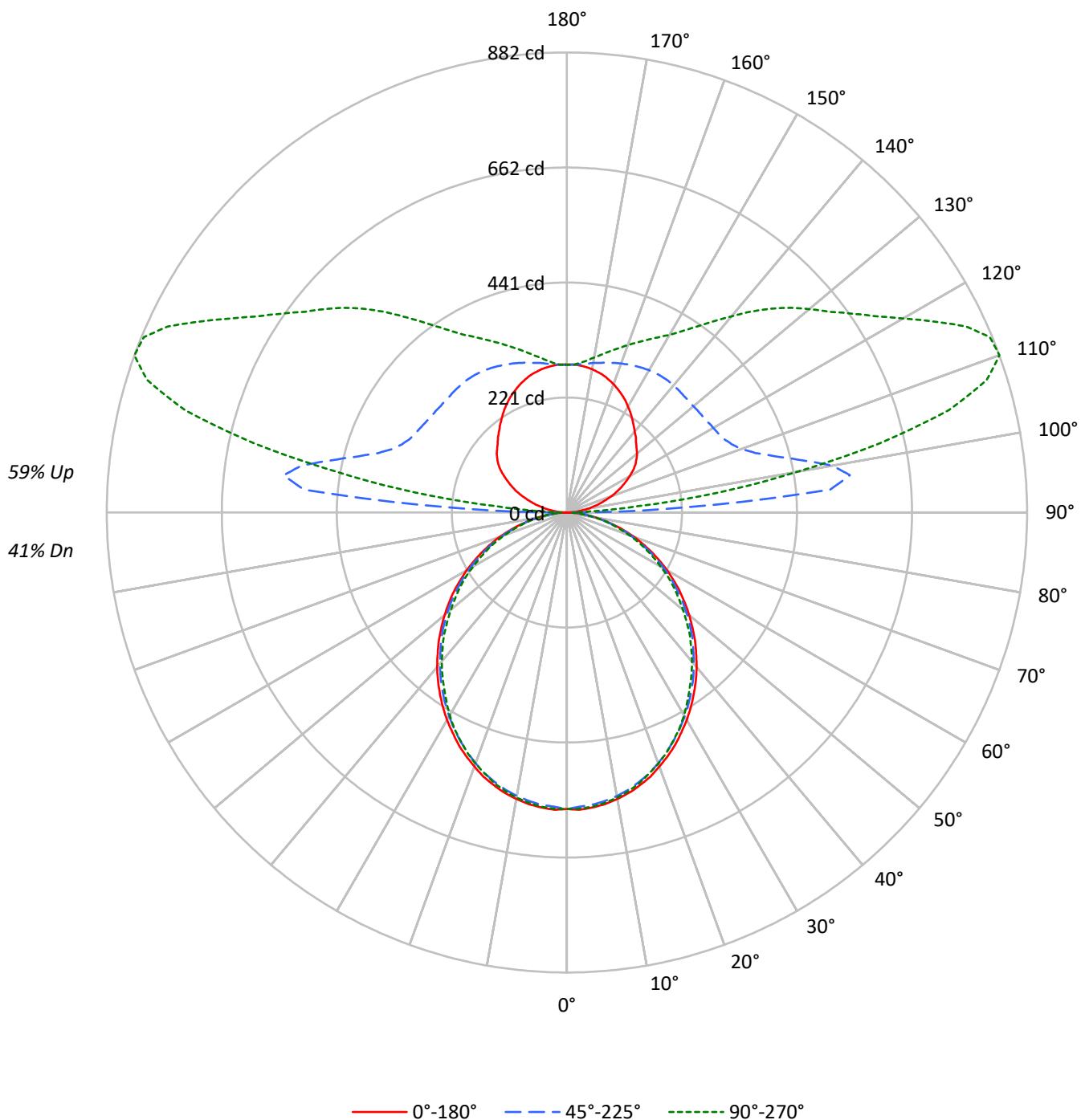
Lumens per Lamp: N/A
Luminaire Lumens: 3615.4 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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					0
RW	70	50	30	10	70	50	30	10	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	41		
1	96	91	88	84	87	83	80	77	69	66	64	55	53	52	42	41	40	34		
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	37	35	34	29		
3	79	70	63	57	72	64	58	53	53	48	45	42	39	37	33	31	29	24		
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25	21		
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	24	22	18		
6	61	49	41	36	56	45	38	33	38	32	28	31	27	24	24	21	19	16		
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17	14		
8	52	40	33	27	48	37	30	26	31	26	22	25	21	19	20	17	15	13		
9	49	37	29	24	44	34	27	23	28	23	20	23	19	17	18	16	14	11		
10	46	34	27	22	42	31	25	20	26	21	18	22	18	15	17	14	12	10		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3643	3643	3643
5°	3643	3559	3565
10°	3613	3477	3466
15°	3566	3380	3349
20°	3501	3266	3215
25°	3433	3143	3071
30°	3350	3014	2920
35°	3261	2879	2751
40°	3169	2737	2600
45°	3070	2598	2439
50°	2961	2441	2253
55°	2853	2267	2081
60°	2724	2084	1882
65°	2570	1872	1675
70°	2414	1629	1437
75°	2149	1341	1161
80°	1832	1002	854
85°	1412	593	470

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3070 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.7	1.5
10°-20°	151.6	4.2
20°-30°	223.8	6.2
30°-40°	261.1	7.2
40°-50°	262.2	7.3
50°-60°	230.2	6.4
60°-70°	171.4	4.7
70°-80°	97.9	2.7
80°-90°	29.4	0.8
90°-100°	213.5	5.9
100°-110°	443.6	12.3
110°-120°	414.3	11.5
120°-130°	335.2	9.3
130°-140°	269.3	7.4
140°-150°	203.3	5.6
150°-160°	143.1	4.0
160°-170°	84.4	2.3
170°-180°	27.4	0.8
0°-30°	429.0	11.9
0°-40°	690.0	19.1
0°-60°	1182.4	32.7
0°-90°	1481.1	41.0
90°-120°	1071.4	29.6
90°-150°	1879.3	52.0
90°-180°	2134.0	59.0
0°-180°	3615.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	569	569	569	569	569	
5°	568	567	562	566	566	54
15°	541	540	535	537	537	153
25°	491	489	483	484	483	226
35°	424	422	416	414	410	265
45°	347	346	340	335	333	268
55°	264	263	257	253	250	236
65°	179	178	173	169	167	177
75°	95	94	92	90	89	101
85°	25	25	25	25	24	27
90°	1	5	9	12	13	3
95°	19	56	506	230	134	20
105°	65	90	414	816	758	68
115°	116	139	333	717	844	114
125°	160	188	319	571	665	142
135°	188	226	317	478	552	146
145°	218	250	318	396	436	137
155°	249	268	310	350	365	115
165°	272	280	297	315	320	77
175°	283	283	285	289	288	27
180°	284	284	284	284	284	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	568.6	568.6	568.6	568.6	568.6
2.5°	570.4	569.1	564.6	569.1	568.6
5°	567.7	566.8	562.3	566.4	565.9
7.5°	563.7	562.8	557.8	561.9	561.4
10°	557.8	556.9	552.0	555.6	555.1
12.5°	550.6	548.8	544.3	547.0	547.0
15°	541.2	539.8	534.9	537.1	537.1
17.5°	531.3	529.0	524.1	526.8	524.5
20°	518.2	517.3	511.5	514.6	512.4
22.5°	505.2	503.4	498.0	499.8	498.4
25°	491.3	489.0	483.2	484.1	482.7
27.5°	475.1	473.7	467.9	468.3	467.0
30°	459.3	458.0	451.2	450.3	449.0
32.5°	442.2	440.0	434.1	432.3	429.6
35°	424.2	422.4	416.1	413.9	410.3
37.5°	405.8	403.5	397.7	394.5	392.3
40°	386.9	384.6	378.3	374.3	372.9
42.5°	366.6	364.8	358.5	354.9	352.7
45°	347.3	345.5	340.1	334.7	333.3
47.5°	326.2	326.6	319.9	314.5	311.3
50°	305.9	304.6	299.2	293.3	290.2
52.5°	285.2	284.3	278.5	273.5	269.9
55°	264.5	263.2	256.9	252.8	249.7
57.5°	242.5	242.0	236.6	231.2	229.9
60°	221.8	220.0	215.0	210.5	207.4
62.5°	200.2	198.8	194.8	189.8	187.6
65°	178.6	177.7	172.7	168.7	166.9
67.5°	157.5	155.7	152.1	148.5	147.6
70°	137.7	135.4	131.4	128.7	126.9
72.5°	116.1	114.7	112.5	109.3	107.5
75°	94.9	94.0	91.8	90.4	88.6
77.5°	75.1	74.7	73.3	72.4	71.1
80°	56.7	56.7	55.8	55.3	54.4
82.5°	40.5	39.6	39.6	38.7	38.7
85°	24.7	25.2	25.2	24.7	23.8
87.5°	12.1	12.1	11.7	11.7	10.8
90°	0.6	5.2	9.1	12.0	13.1
92.5°	8.6	46.9	228.1	60.9	42.3
95°	18.9	55.8	506.5	229.8	134.4
97.5°	29.2	60.3	547.1	415.1	294.4
100°	40.0	69.2	516.3	586.6	445.9
102.5°	52.0	79.2	461.9	731.8	615.2
105°	64.6	90.3	414.5	816.2	757.5
107.5°	76.6	102.1	379.0	839.8	843.3
110°	89.8	114.4	355.6	817.3	882.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	102.9	126.6	341.9	770.1	877.6
115°	115.5	139.2	332.7	717.2	843.8
117.5°	126.9	152.0	327.6	669.2	793.0
120°	138.4	164.4	324.2	628.8	743.8
122.5°	150.4	176.4	321.3	596.6	700.3
125°	160.1	187.6	319.0	570.6	664.9
127.5°	168.1	198.4	317.9	548.2	632.3
130°	175.5	208.6	316.7	525.7	606.6
132.5°	181.2	217.8	316.7	501.4	580.9
135°	187.5	225.6	316.7	478.2	552.3
137.5°	195.5	232.7	317.3	453.9	522.5
140°	202.4	238.7	317.9	431.6	491.1
142.5°	210.4	244.4	318.4	412.5	461.9
145°	218.4	250.1	317.9	395.9	435.6
147.5°	227.0	255.3	316.7	381.6	412.2
150°	234.4	259.8	315.0	369.9	393.3
152.5°	242.4	264.4	312.7	359.9	378.5
155°	249.3	268.1	309.9	350.2	365.3
157.5°	255.6	271.8	307.0	341.0	353.3
160°	261.8	274.7	304.1	331.9	341.3
162.5°	267.0	277.6	300.7	323.6	330.4
165°	272.1	279.6	297.3	315.3	320.2
167.5°	275.6	280.8	293.9	307.5	310.4
170°	279.0	282.2	291.0	300.2	301.9
172.5°	281.3	282.7	287.6	294.2	293.9
175°	283.0	283.0	285.3	288.7	287.6
177.5°	284.1	283.0	283.6	285.3	283.6
180°	283.6	283.6	283.6	283.6	283.6

(END OF REPORT)