

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: P1028020

Luminaire Tested: S125DIP-B610D1270UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028020
REPORT IS A COMBINATION OF REPORTS P1002184 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D1270UB27-4F0-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

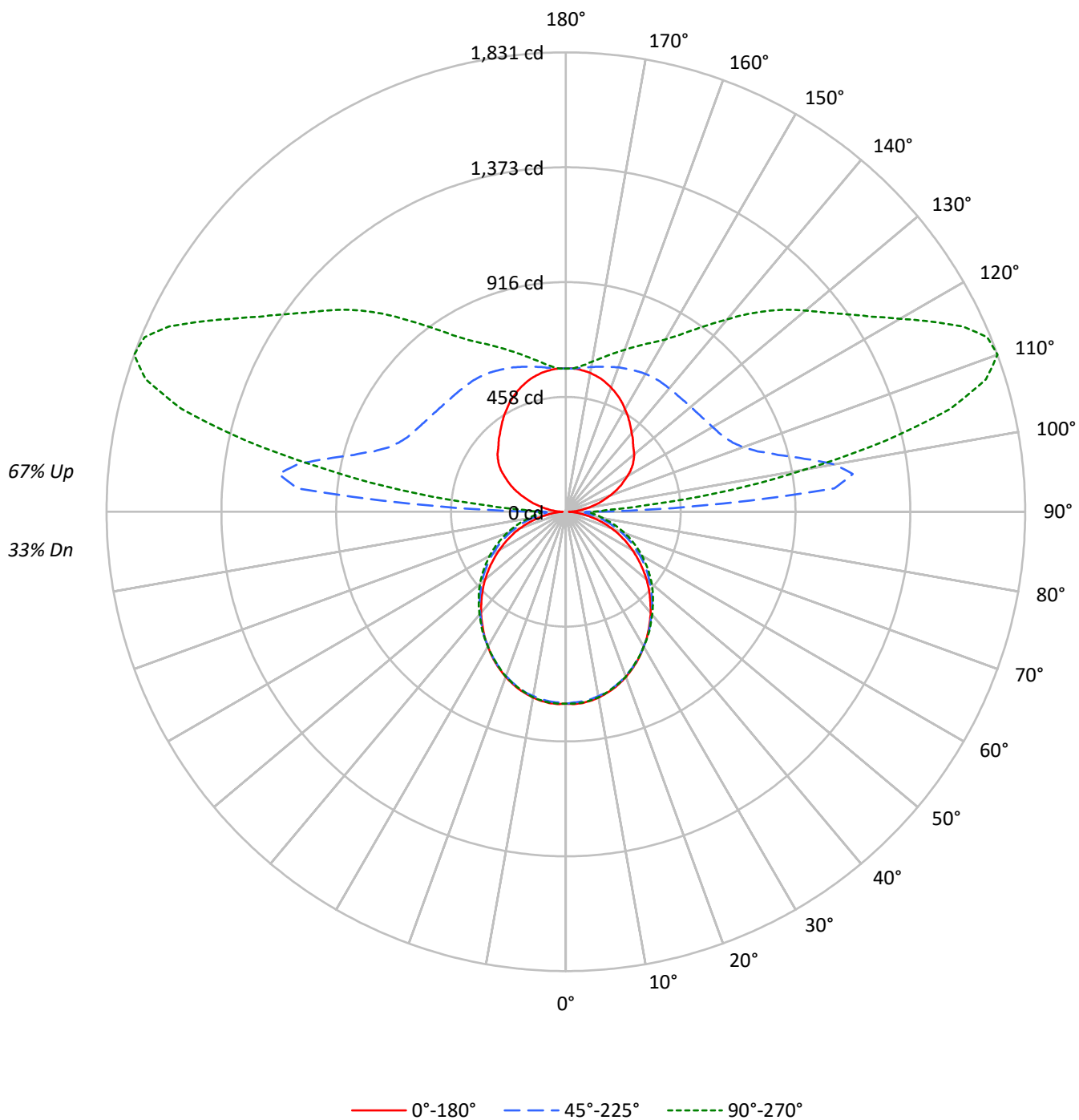
Lumens per Lamp: N/A
Luminaire Lumens: 6669.9 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 59
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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41
1	94	89	85	82	84	80	77	74	64	62	60	49	48	46	35	34	33
2	85	78	71	66	76	70	65	60	56	52	49	43	40	38	31	29	28
3	77	68	61	55	69	61	55	50	49	45	41	38	35	32	27	25	23
4	71	60	52	46	63	54	47	42	43	39	35	33	30	27	24	22	20
5	65	53	45	39	58	48	41	36	39	34	30	30	26	23	22	19	17
6	59	48	40	34	53	43	36	31	35	30	26	27	23	20	20	17	15
7	55	43	35	29	49	39	32	27	31	26	22	24	21	18	18	15	13
8	51	39	31	26	46	35	28	24	29	23	20	22	19	16	16	14	12
9	47	35	28	23	42	32	26	21	26	21	18	20	17	14	15	13	11
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	14	12	10

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	1.1
10°-20°	205.5	3.1
20°-30°	305.6	4.6
30°-40°	361.9	5.4
40°-50°	374.2	5.6
50°-60°	344.7	5.2
60°-70°	278.7	4.2
70°-80°	186.5	2.8
80°-90°	98.7	1.5
90°-100°	484.3	7.3
100°-110°	933.2	14.0
110°-120°	861.0	12.9
120°-130°	690.2	10.3
130°-140°	549.0	8.2
140°-150°	410.7	6.2
150°-160°	288.2	4.3
160°-170°	169.9	2.5
170°-180°	55.2	0.8
0°-30°	583.5	8.7
0°-40°	945.4	14.2
0°-60°	1664.3	25.0
0°-90°	2228.1	33.4
90°-120°	2278.5	34.2
90°-150°	3928.5	58.9
90°-180°	4442.0	66.6
0°-180°	6669.9	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°	13	46	80	103	110	11
95°	48	142	1075	534	347	47
105°	137	201	876	1700	1587	144
115°	237	290	699	1487	1746	233
125°	325	380	660	1178	1372	289
135°	379	455	644	979	1132	294
145°	441	504	640	801	884	276
155°	502	540	624	705	736	231
165°	548	563	599	635	645	154
175°	570	570	574	581	579	54
180°	571	571	571	571	571	

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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°	13.2	46.4	79.9	103.0	110.5
92.5°	27.8	126.7	517.8	197.6	165.5
95°	47.8	141.5	1074.8	534.0	347.0
97.5°	67.7	148.4	1153.5	903.2	665.7
100°	88.9	163.3	1087.5	1245.0	966.2
102.5°	112.3	181.2	975.2	1533.5	1303.2
105°	136.9	200.7	875.9	1699.6	1586.8
107.5°	160.3	222.0	801.5	1744.4	1755.8
110°	186.0	244.6	751.3	1695.2	1831.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	212.5	267.0	720.7	1596.4	1818.1
115°	237.0	290.1	699.3	1487.0	1746.5
117.5°	259.4	313.7	685.9	1386.5	1641.0
120°	282.4	337.0	676.0	1302.4	1538.2
122.5°	305.8	359.0	667.3	1233.6	1447.0
125°	325.3	379.9	659.7	1178.2	1371.8
127.5°	340.8	401.0	654.4	1129.5	1303.2
130°	355.7	421.7	649.8	1081.0	1247.7
132.5°	366.4	440.1	646.8	1029.1	1192.1
135°	379.1	455.0	643.8	978.8	1131.6
137.5°	395.2	469.4	642.7	926.8	1068.0
140°	408.3	481.4	641.6	879.0	1001.7
142.5°	424.4	492.1	641.2	837.4	940.0
145°	440.6	503.6	640.1	801.0	884.0
147.5°	457.0	514.0	637.8	769.9	833.0
150°	472.0	523.2	634.3	744.8	792.8
152.5°	488.1	532.4	629.7	724.7	762.1
155°	501.9	540.0	623.9	705.1	735.6
157.5°	514.6	547.4	618.2	686.7	711.4
160°	527.2	553.2	612.4	668.2	687.3
162.5°	537.6	558.9	605.5	651.6	665.4
165°	548.0	563.0	598.6	634.9	644.7
167.5°	554.9	565.2	591.7	619.3	625.1
170°	561.8	568.1	586.0	604.4	607.8
172.5°	566.4	569.2	579.1	592.3	591.7
175°	569.8	569.8	574.4	581.4	579.1
177.5°	572.1	569.8	571.0	574.4	571.0
180°	571.0	571.0	571.0	571.0	571.0

(END OF REPORT)