

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: P1028019

Luminaire Tested: S125DIP-B610D1270UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028019
REPORT IS A COMBINATION OF REPORTS P1002183 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D1270UB27-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

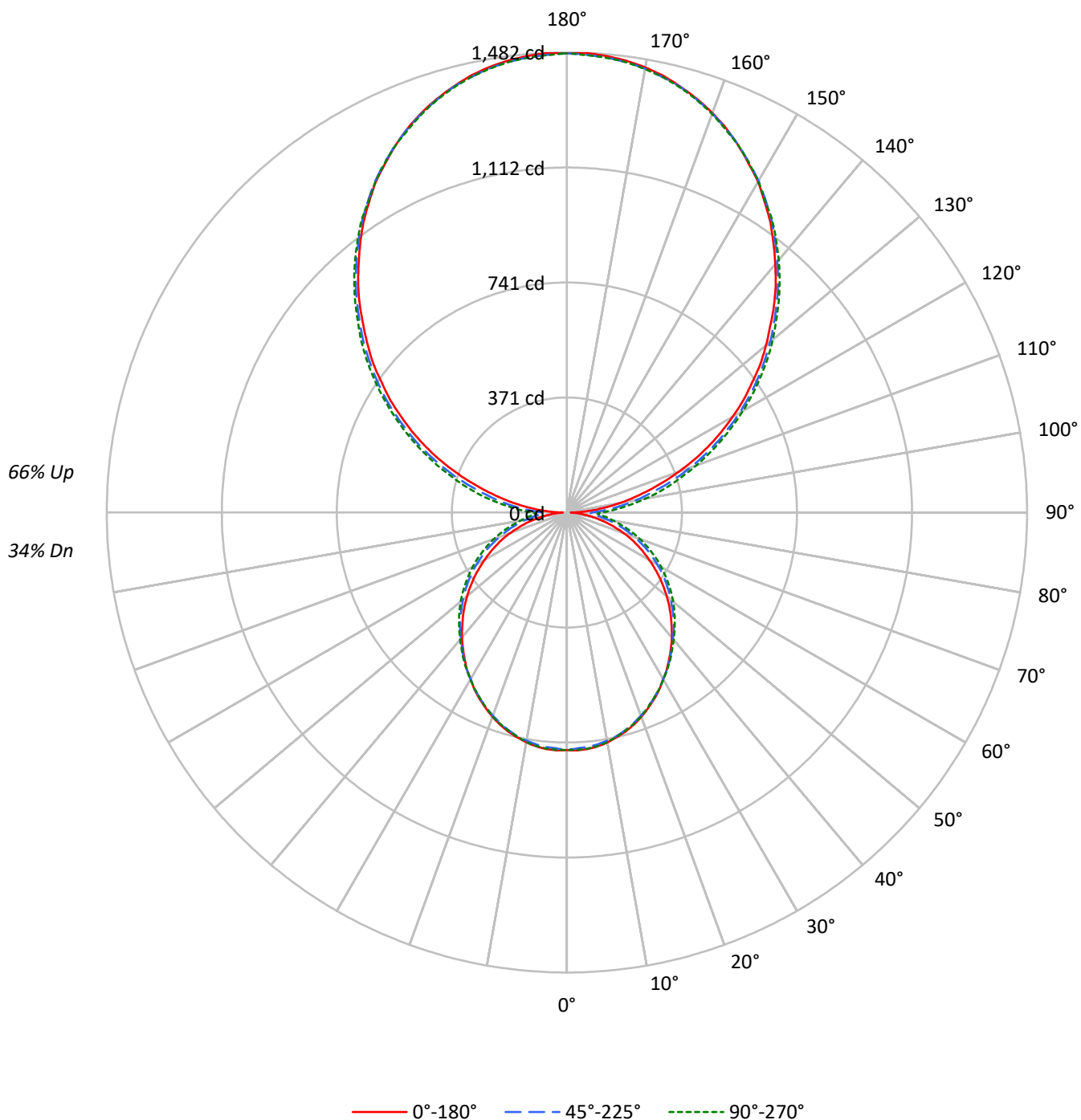
Lumens per Lamp: N/A
Luminaire Lumens: 6501.1 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	75	75	75	57	57	57	42	42	42
1	94	89	85	82	84	81	77	74	65	62	60	50	48	47	36	35	34
2	85	78	71	66	76	70	65	60	56	52	49	43	41	39	31	30	28
3	77	68	61	55	70	62	55	50	49	45	41	38	35	32	28	26	24
4	71	60	52	46	63	54	48	42	44	39	35	34	30	28	25	22	20
5	65	53	45	39	58	48	41	36	39	34	30	30	27	24	22	20	18
6	60	48	40	34	54	43	36	31	35	30	26	27	23	21	20	17	15
7	55	43	35	30	49	39	32	27	32	26	23	25	21	18	18	16	14
8	51	39	31	26	46	35	29	24	29	24	20	23	19	16	17	14	12
9	47	35	28	23	43	32	26	21	26	21	18	21	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	3.2
20°-30°	305.6	4.7
30°-40°	361.9	5.6
40°-50°	374.2	5.8
50°-60°	344.7	5.3
60°-70°	278.7	4.3
70°-80°	186.5	2.9
80°-90°	98.7	1.5
90°-100°	152.7	2.3
100°-110°	332.3	5.1
110°-120°	522.4	8.0
120°-130°	667.7	10.3
130°-140°	737.8	11.3
140°-150°	718.0	11.0
150°-160°	602.0	9.3
160°-170°	400.2	6.2
170°-180°	140.0	2.2
0°-30°	583.5	9.0
0°-40°	945.4	14.5
0°-60°	1664.3	25.6
0°-90°	2228.1	34.3
90°-120°	1007.4	15.5
90°-150°	3130.9	48.2
90°-180°	4273.0	65.7
0°-180°	6501.1	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	112	13
95°	85	106	143	168	176	86
105°	269	287	316	338	347	287
115°	501	511	532	545	548	495
125°	727	733	750	759	762	651
135°	943	949	956	966	965	727
145°	1142	1146	1149	1153	1152	714
155°	1306	1306	1307	1311	1306	601
165°	1420	1417	1418	1423	1416	401
175°	1476	1471	1471	1478	1470	140
180°	1479	1479	1479	1479	1479	

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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	111.6
92.5°	45.0	72.6	109.2	133.7	141.3
95°	84.6	106.4	143.4	168.0	175.5
97.5°	124.1	143.3	184.2	206.8	213.3
100°	169.5	185.2	224.1	250.3	257.1
102.5°	218.2	238.2	267.2	293.7	301.7
105°	269.3	287.0	316.4	338.4	347.0
107.5°	324.9	341.1	368.7	387.2	391.7
110°	382.9	397.7	422.1	439.8	443.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	442.8	451.8	476.7	491.3	494.2
115°	500.7	510.6	532.4	544.7	548.1
117.5°	559.8	564.7	585.8	599.6	600.3
120°	615.1	623.1	641.5	654.2	654.1
122.5°	674.2	676.1	696.1	706.9	708.0
125°	727.1	733.3	749.5	759.2	761.7
127.5°	785.1	787.8	801.7	811.8	814.0
130°	836.9	841.9	854.7	864.1	865.5
132.5°	887.9	898.3	904.7	914.0	913.6
135°	943.2	949.4	955.8	965.6	964.7
137.5°	995.0	1001.2	1006.5	1016.7	1013.9
140°	1043.8	1049.6	1053.7	1064.3	1061.6
142.5°	1093.3	1097.1	1101.7	1109.7	1106.9
145°	1141.7	1145.5	1148.9	1152.7	1152.3
147.5°	1185.8	1189.2	1191.5	1196.5	1188.8
150°	1230.7	1229.5	1234.1	1234.1	1232.6
152.5°	1267.5	1269.8	1271.0	1274.4	1269.8
155°	1305.5	1305.5	1306.6	1311.3	1305.5
157.5°	1340.0	1337.7	1338.9	1343.5	1335.4
160°	1370.0	1366.5	1367.7	1372.3	1366.5
162.5°	1396.4	1394.1	1394.1	1399.9	1393.0
165°	1419.5	1417.2	1418.3	1422.9	1416.0
167.5°	1440.2	1435.6	1435.6	1442.5	1435.6
170°	1456.3	1451.7	1451.7	1458.6	1450.6
172.5°	1467.8	1463.2	1463.2	1470.1	1463.2
175°	1475.9	1471.3	1471.3	1478.2	1470.1
177.5°	1481.6	1477.0	1475.9	1482.8	1474.7
180°	1479.3	1479.3	1479.3	1479.3	1479.3

(END OF REPORT)