

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: P1028049

Luminaire Tested: S125DIP-B610D1270UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028049
REPORT IS A COMBINATION OF REPORTS P1002228 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D1270UB40-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

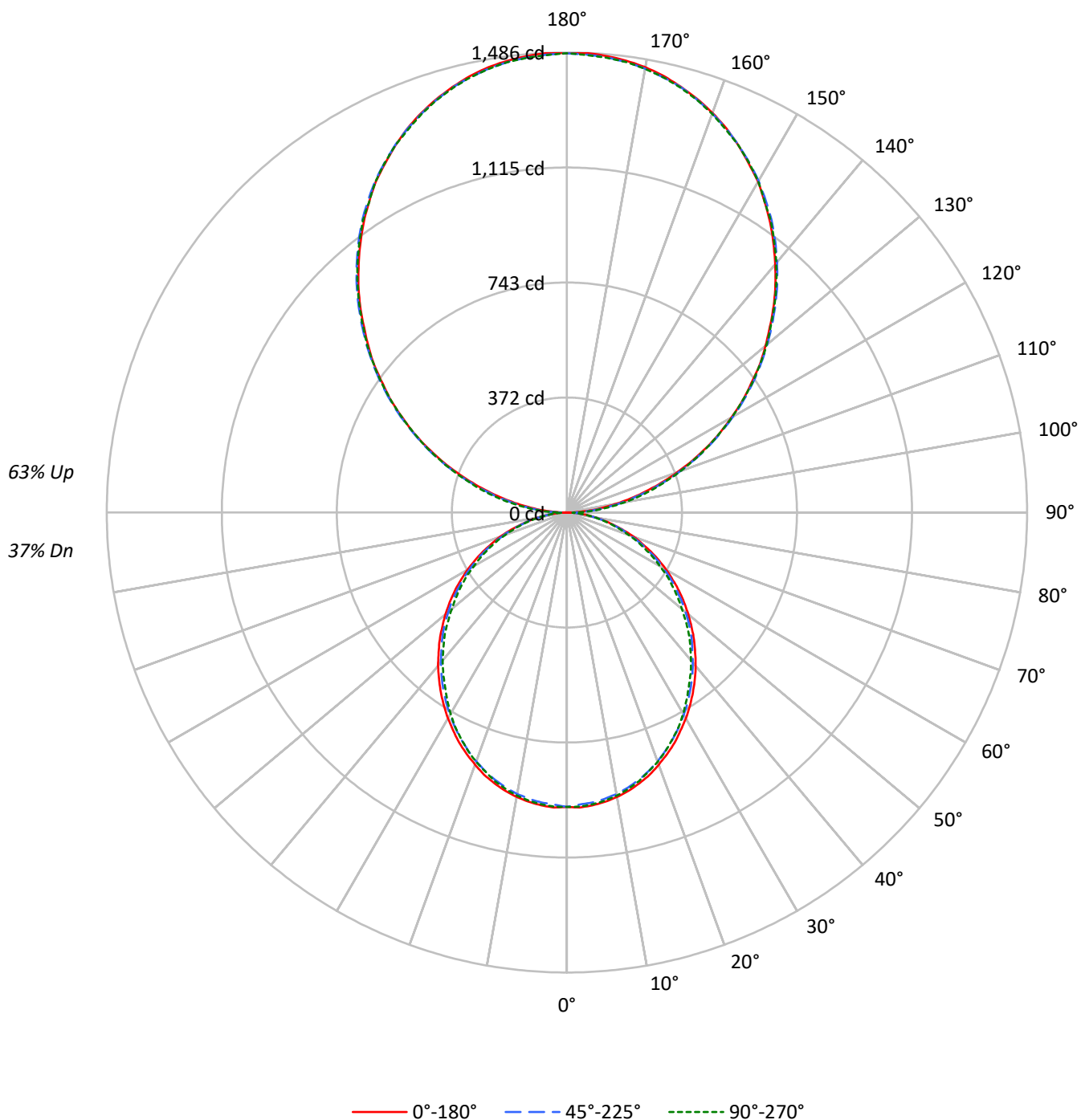
Lumens per Lamp: N/A
Luminaire Lumens: 6618.0 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

TEST NUMBER: P1028049

CATALOG NUMBER: S125DIP-B610D1270UB40-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1028049

CATALOG NUMBER: S125DIP-B610D1270UB40-4F0-XX-W2A-F1

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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45
1	95	91	87	83	86	82	79	76	67	65	62	52	51	50	39	38	38
2	86	79	73	68	78	72	67	62	58	55	52	46	44	41	35	33	32
3	79	69	62	57	71	63	57	52	52	47	43	41	38	35	31	29	27
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	25	22	20
6	61	49	41	35	55	45	38	33	37	31	28	29	25	23	22	20	18
7	56	44	36	31	51	40	33	29	33	28	24	27	23	20	20	18	16
8	52	40	32	27	47	37	30	25	30	25	21	24	20	18	19	16	14
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13
10	45	33	26	21	41	31	24	20	25	21	17	21	17	14	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6093	6093	6093
5°	6093	5951	5963
10°	6043	5815	5796
15°	5963	5652	5601
20°	5856	5462	5377
25°	5741	5256	5136
30°	5602	5041	4883
35°	5453	4816	4600
40°	5300	4577	4348
45°	5134	4345	4080
50°	4952	4082	3767
55°	4771	3791	3480
60°	4556	3485	3146
65°	4298	3131	2801
70°	4035	2724	2403
75°	3593	2243	1943
80°	3063	1675	1429
85°	2367	990	788

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5134 cd/sqm

TEST NUMBER: P1028049

CATALOG NUMBER: S125DIP-B610D1270UB40-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	1.4
10°-20°	253.5	3.8
20°-30°	374.2	5.7
30°-40°	436.6	6.6
40°-50°	438.5	6.6
50°-60°	384.9	5.8
60°-70°	286.7	4.3
70°-80°	163.7	2.5
80°-90°	49.6	0.7
90°-100°	98.7	1.5
100°-110°	293.1	4.4
110°-120°	497.1	7.5
120°-130°	654.4	9.9
130°-140°	733.3	11.1
140°-150°	718.7	10.9
150°-160°	603.7	9.1
160°-170°	401.3	6.1
170°-180°	140.4	2.1
0°-30°	717.4	10.8
0°-40°	1154.0	17.4
0°-60°	1977.3	29.9
0°-90°	2477.3	37.4
90°-120°	888.8	13.4
90°-150°	2995.2	45.3
90°-180°	4141.0	62.6
0°-180°	6618.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	951	951	951	951	951	
5°	949	948	940	947	946	90
15°	905	903	894	898	898	255
25°	822	818	808	810	807	378
35°	709	706	696	692	686	444
45°	581	578	569	560	558	447
55°	442	440	430	423	418	395
65°	299	297	289	282	279	296
75°	159	157	154	151	148	169
85°	41	42	42	41	40	45
90°	1	10	18	24	28	8
95°	75	77	89	97	99	78
105°	263	269	276	283	286	281
115°	498	502	504	503	502	492
125°	726	733	734	732	731	651
135°	944	951	952	952	948	728
145°	1144	1149	1152	1152	1149	715
155°	1309	1309	1310	1315	1309	603
165°	1424	1421	1422	1427	1420	402
175°	1480	1476	1476	1482	1474	141
180°	1484	1484	1484	1484	1484	

TEST NUMBER: P1028049

CATALOG NUMBER: S125DIP-B610D1270UB40-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	950.9	950.9	950.9	950.9	950.9
2.5°	953.9	951.7	944.1	951.7	950.9
5°	949.4	947.9	940.4	947.2	946.4
7.5°	942.6	941.1	932.9	939.6	938.9
10°	932.9	931.4	923.1	929.1	928.3
12.5°	920.8	917.8	910.3	914.8	914.8
15°	905.0	902.8	894.5	898.3	898.3
17.5°	888.5	884.7	876.4	881.0	877.2
20°	866.7	865.2	855.4	860.6	856.9
22.5°	844.8	841.8	832.8	835.8	833.6
25°	821.5	817.8	808.0	809.5	807.2
27.5°	794.4	792.2	782.4	783.2	780.9
30°	768.1	765.8	754.6	753.1	750.8
32.5°	739.5	735.8	726.0	723.0	718.5
35°	709.4	706.4	695.9	692.1	686.1
37.5°	678.6	674.8	665.0	659.8	656.0
40°	647.0	643.2	632.7	625.9	623.7
42.5°	613.1	610.1	599.6	593.6	589.8
45°	580.8	577.8	568.7	559.7	557.5
47.5°	545.4	546.2	534.9	525.9	520.6
50°	511.6	509.3	500.3	490.5	485.2
52.5°	477.0	475.5	465.7	457.4	451.4
55°	442.4	440.1	429.6	422.8	417.5
57.5°	405.5	404.7	395.7	386.7	384.4
60°	370.9	367.9	359.6	352.1	346.8
62.5°	334.8	332.5	325.7	317.5	313.7
65°	298.7	297.2	288.9	282.1	279.1
67.5°	263.3	260.3	254.3	248.3	246.8
70°	230.2	226.4	219.7	215.2	212.2
72.5°	194.1	191.8	188.1	182.8	179.8
75°	158.7	157.2	153.5	151.2	148.2
77.5°	125.6	124.9	122.6	121.1	118.9
80°	94.8	94.8	93.3	92.5	91.0
82.5°	67.7	66.2	66.2	64.7	64.7
85°	41.4	42.1	42.1	41.4	39.9
87.5°	20.3	20.3	19.6	19.6	18.1
90°	1.2	10.4	18.5	24.2	27.7
92.5°	34.6	40.4	50.8	58.9	61.2
95°	75.0	77.4	88.9	97.0	99.3
97.5°	115.5	116.6	132.8	139.7	140.9
100°	161.6	161.6	176.7	187.0	189.4
102.5°	211.3	217.1	222.8	234.4	237.8
105°	263.2	269.0	275.9	282.9	286.3
107.5°	319.8	325.6	331.4	334.8	334.8
110°	378.7	384.5	387.9	391.4	390.2

TEST NUMBER: P1028049

CATALOG NUMBER: S125DIP-B610D1270UB40-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	438.7	441.0	445.7	446.8	444.5
115°	497.6	502.2	504.5	503.4	502.2
117.5°	557.7	558.8	561.1	562.3	557.7
120°	613.1	618.9	620.0	620.0	615.4
122.5°	673.1	674.3	677.7	676.6	673.1
125°	726.2	733.2	734.3	732.0	730.8
127.5°	785.1	788.6	789.7	788.6	786.3
130°	837.1	842.8	845.1	844.0	841.7
132.5°	889.0	899.4	898.3	897.1	893.6
135°	944.4	951.4	952.5	952.5	947.9
137.5°	996.4	1003.3	1005.6	1006.8	1001.0
140°	1046.0	1051.8	1055.3	1057.6	1051.8
142.5°	1095.7	1100.3	1104.9	1106.1	1100.3
145°	1144.2	1148.8	1152.3	1152.3	1148.8
147.5°	1189.2	1192.7	1195.0	1198.4	1189.2
150°	1234.2	1233.1	1237.7	1237.7	1235.4
152.5°	1271.2	1273.5	1274.7	1278.1	1273.5
155°	1309.3	1309.3	1310.4	1315.1	1309.3
157.5°	1343.9	1341.6	1342.8	1347.4	1339.3
160°	1373.9	1370.5	1371.6	1376.3	1370.5
162.5°	1400.5	1398.2	1398.2	1404.0	1397.0
165°	1423.6	1421.3	1422.4	1427.1	1420.1
167.5°	1444.4	1439.8	1439.8	1446.7	1439.8
170°	1460.5	1455.9	1455.9	1462.8	1454.8
172.5°	1472.1	1467.5	1467.5	1474.4	1467.5
175°	1480.2	1475.5	1475.5	1482.5	1474.4
177.5°	1485.9	1481.3	1480.2	1487.1	1479.0
180°	1483.6	1483.6	1483.6	1483.6	1483.6

(END OF REPORT)