

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: P1028036

Luminaire Tested: S125DIP-B610D1270UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028036
REPORT IS A COMBINATION OF REPORTS P1002215 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D1270UB35-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

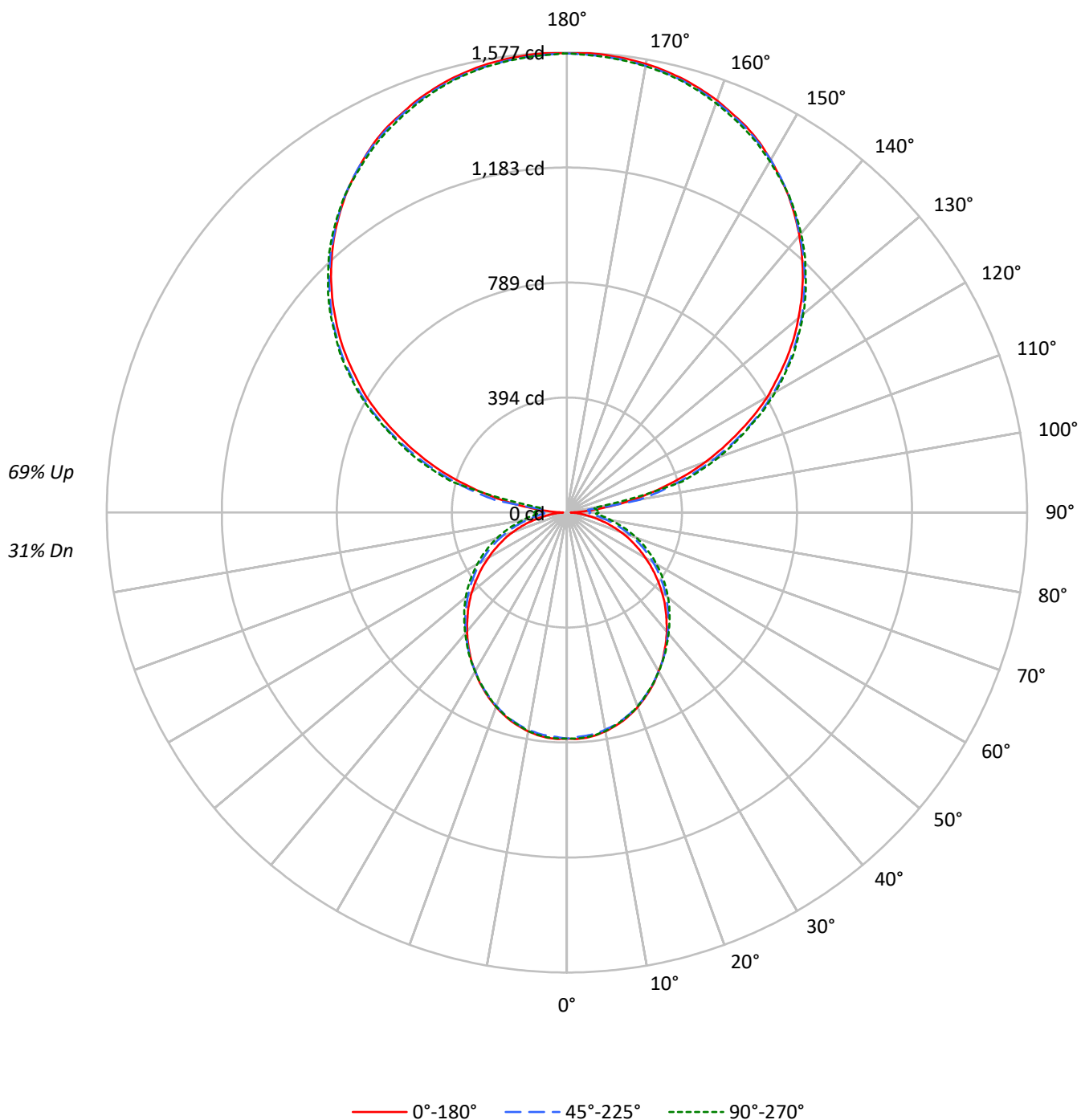
Lumens per Lamp: N/A
Luminaire Lumens: 7237.0 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

TEST NUMBER: P1028036

CATALOG NUMBER: S125DIP-B610D1270UB35-4F0-XX-W2A-D

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	92	92	92	92	73	73	73	55	55	55	39	39	39
1	93	89	85	81	83	80	76	73	63	61	59	48	46	45	34	33	32
2	85	77	71	66	76	69	64	60	55	51	48	42	39	37	29	28	26
3	77	68	60	55	69	61	55	50	48	44	40	37	34	31	26	24	22
4	70	60	52	46	63	54	47	42	43	38	34	32	29	26	23	21	19
5	64	53	45	39	58	48	41	36	38	33	29	29	26	23	21	18	16
6	59	47	39	34	53	43	36	31	34	29	25	26	23	20	19	16	14
7	55	43	35	29	49	39	32	27	31	26	22	24	20	17	17	15	13
8	51	38	31	26	45	35	28	24	28	23	19	22	18	15	16	13	11
9	47	35	28	23	42	32	25	21	26	21	17	20	16	14	14	12	10
10	44	32	25	20	39	29	23	19	23	19	15	18	15	12	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4966	4966	4966
5°	4974	4862	4873
10°	4936	4763	4749
15°	4876	4647	4596
20°	4795	4508	4444
25°	4699	4360	4259
30°	4583	4198	4092
35°	4475	4049	3938
40°	4364	3892	3782
45°	4239	3756	3642
50°	4119	3608	3517
55°	3974	3467	3369
60°	3817	3307	3220
65°	3652	3137	3050
70°	3464	2911	2874
75°	3165	2687	2660
80°	2776	2415	2422
85°	2390	2199	2297

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4239 cd/sqm

TEST NUMBER: P1028036

CATALOG NUMBER: S125DIP-B610D1270UB35-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	1.0
10°-20°	208.2	2.9
20°-30°	309.6	4.3
30°-40°	366.7	5.1
40°-50°	379.1	5.2
50°-60°	349.2	4.8
60°-70°	282.3	3.9
70°-80°	188.9	2.6
80°-90°	100.0	1.4
90°-100°	108.4	1.5
100°-110°	395.7	5.5
110°-120°	666.7	9.2
120°-130°	836.2	11.6
130°-140°	889.6	12.3
140°-150°	829.9	11.5
150°-160°	670.3	9.3
160°-170°	433.5	6.0
170°-180°	149.5	2.1
0°-30°	591.2	8.2
0°-40°	957.8	13.2
0°-60°	1686.1	23.3
0°-90°	2257.3	31.2
90°-120°	1170.8	16.2
90°-150°	3726.6	51.5
90°-180°	4980.0	68.8
0°-180°	7237.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	775	775	775	775	775	
5°	775	774	768	774	774	74
15°	740	741	736	740	737	209
25°	672	675	670	673	669	310
35°	582	587	585	587	587	364
45°	480	488	492	497	498	370
55°	368	381	393	401	404	329
65°	254	271	290	301	304	252
75°	140	160	184	199	203	148
85°	42	67	94	110	116	44
90°	13	47	81	104	113	12
95°	76	93	74	97	102	89
105°	350	367	389	405	409	371
115°	648	660	680	690	687	643
125°	919	926	941	949	949	821
135°	1144	1150	1153	1160	1157	882
145°	1325	1326	1326	1331	1327	828
155°	1458	1451	1453	1457	1448	672
165°	1539	1532	1533	1540	1530	435
175°	1574	1567	1568	1577	1567	150
180°	1574	1574	1574	1574	1574	

TEST NUMBER: P1028036

CATALOG NUMBER: S125DIP-B610D1270UB35-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	775.1	775.1	775.1	775.1	775.1
2.5°	777.3	775.8	770.5	775.8	775.1
5°	775.1	773.5	768.2	774.3	773.5
7.5°	769.7	769.0	763.7	769.0	768.2
10°	762.1	762.1	756.1	761.4	760.6
12.5°	751.5	752.3	747.7	751.5	749.2
15°	740.1	740.9	735.5	740.1	737.1
17.5°	725.7	727.2	721.9	725.7	723.4
20°	709.7	711.2	705.9	708.2	708.2
22.5°	691.5	694.5	688.4	691.5	689.2
25°	672.5	674.8	670.2	673.2	669.4
27.5°	652.0	655.0	649.7	652.0	650.4
30°	628.4	633.0	628.4	629.9	629.2
32.5°	607.1	610.9	607.9	609.4	608.6
35°	582.1	587.4	585.1	587.4	587.4
37.5°	557.7	562.3	561.5	564.6	563.8
40°	532.7	538.7	538.0	541.0	542.5
42.5°	505.3	513.7	515.9	519.7	519.7
45°	479.5	487.8	491.6	497.0	497.7
47.5°	452.9	460.5	466.6	474.2	475.7
50°	425.5	433.9	442.2	450.6	452.9
52.5°	396.6	407.3	417.9	427.0	428.6
55°	368.5	380.7	392.8	401.2	404.2
57.5°	339.7	354.1	367.8	376.9	379.2
60°	310.8	326.0	341.2	352.6	354.9
62.5°	282.7	297.9	314.6	327.5	330.5
65°	253.8	271.3	289.5	300.9	303.9
67.5°	227.2	243.9	262.2	275.8	279.6
70°	197.6	215.0	234.8	249.2	253.8
72.5°	168.7	186.9	209.0	224.9	228.0
75°	139.8	159.6	183.9	199.1	202.9
77.5°	111.7	134.5	157.3	174.0	177.0
80°	85.9	108.7	134.5	151.2	154.3
82.5°	62.3	86.6	113.2	129.2	135.3
85°	41.8	66.9	93.5	110.2	116.3
87.5°	26.6	50.9	76.7	94.2	99.5
90°	13.4	47.0	81.0	104.3	113.1
92.5°	32.8	44.4	78.0	100.5	107.0
95°	76.4	92.6	74.2	96.7	102.0
97.5°	133.9	159.2	73.4	91.7	98.2
100°	203.2	222.6	251.6	93.8	93.6
102.5°	273.6	292.6	318.6	336.1	242.6
105°	349.7	366.6	389.4	404.6	408.7
107.5°	428.4	439.0	463.4	479.8	479.6
110°	504.5	513.6	537.3	548.3	554.7

TEST NUMBER: P1028036

CATALOG NUMBER: S125DIP-B610D1270UB35-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	576.9	587.3	608.9	618.0	620.9
115°	648.5	659.6	680.5	689.5	687.1
117.5°	723.5	727.3	751.0	756.9	759.8
120°	793.5	794.6	815.6	826.2	824.9
122.5°	854.5	861.2	879.0	888.9	886.4
125°	918.7	926.1	941.3	948.8	949.1
127.5°	979.8	984.8	996.6	1005.6	1000.9
130°	1035.8	1040.8	1052.7	1059.8	1057.8
132.5°	1091.0	1098.0	1102.1	1112.8	1109.9
135°	1143.5	1149.8	1152.7	1160.3	1157.1
137.5°	1192.5	1198.8	1199.4	1208.5	1205.8
140°	1239.6	1241.9	1241.5	1252.2	1248.2
142.5°	1282.7	1283.1	1285.4	1292.2	1288.4
145°	1324.7	1326.3	1326.3	1331.2	1327.2
147.5°	1361.3	1361.3	1362.4	1365.1	1358.4
150°	1396.3	1393.9	1396.3	1398.6	1390.1
152.5°	1430.1	1424.3	1426.6	1428.9	1420.8
155°	1458.1	1451.1	1453.4	1456.9	1447.6
157.5°	1480.2	1476.8	1476.8	1480.2	1470.9
160°	1503.6	1496.6	1497.7	1502.4	1493.1
162.5°	1522.2	1515.2	1516.4	1523.4	1512.9
165°	1538.6	1531.6	1532.7	1539.7	1530.4
167.5°	1551.4	1544.4	1545.6	1553.7	1543.2
170°	1561.9	1553.7	1554.9	1564.2	1553.7
172.5°	1568.9	1560.7	1563.1	1571.2	1560.7
175°	1573.6	1566.6	1567.7	1577.1	1566.6
177.5°	1577.1	1570.1	1571.2	1579.4	1570.1
180°	1573.6	1573.6	1573.6	1573.6	1573.6

(END OF REPORT)