

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: P1027482

Luminaire Tested: S125DIP-B1090D610UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027482
REPORT IS A COMBINATION OF REPORTS P1001457 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D610UB50-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

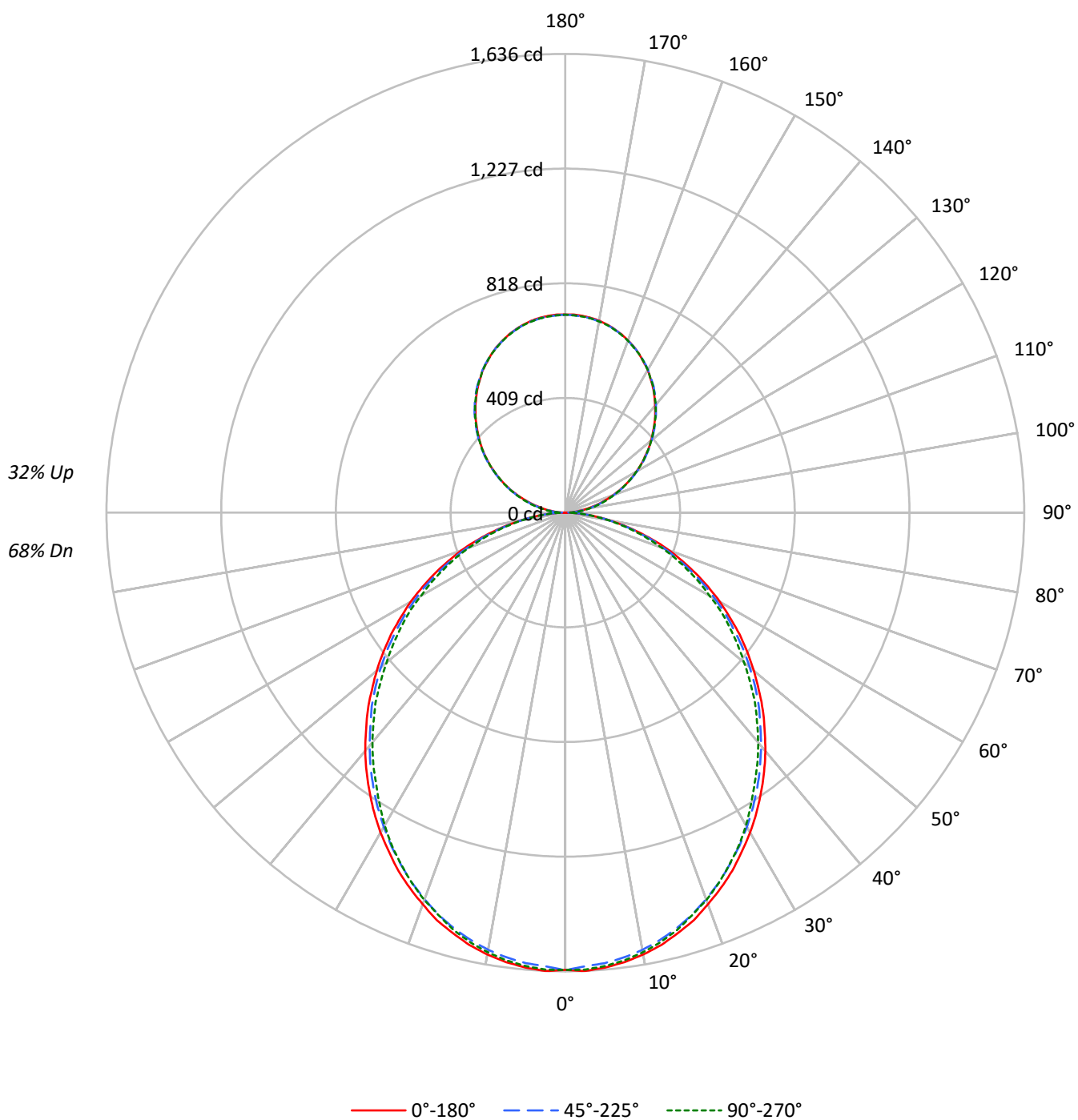
Lumens per Lamp: N/A
Luminaire Lumens: 6217.0 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 62.2
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: P1027482

CATALOG NUMBER: S125DIP-B1090D610UB50-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1027482

CATALOG NUMBER: S125DIP-B1090D610UB50-4F0-XX-W2A-F1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	111	111	111	111	105	105	105	105	93	93	93	83	83	83	73	73	73	64	63	61	68
1	102	97	93	90	96	92	88	85	82	79	77	73	71	69	64	63	61	57	54	52	57
2	93	85	79	73	87	80	75	70	72	67	64	64	61	58	57	54	52	48	47	44	48
3	85	75	67	61	79	71	64	58	63	58	53	57	52	49	50	47	44	41	40	38	41
4	77	66	58	52	73	63	55	50	56	50	46	50	46	42	45	41	38	35	34	33	35
5	71	59	51	44	67	56	48	43	50	44	39	45	40	36	40	36	33	30	29	27	30
6	66	53	45	39	62	51	43	37	46	39	34	41	36	32	37	32	29	27	26	24	27
7	61	48	40	34	57	46	38	33	41	35	30	37	32	28	33	29	26	24	23	21	24
8	56	44	36	30	53	42	34	29	38	32	27	34	29	25	31	26	23	21	20	19	21
9	53	40	32	27	50	38	31	26	35	29	24	32	26	23	28	24	21	19	18	17	19
10	49	37	29	24	47	35	28	24	32	26	22	29	24	21	26	22	19	17	16	15	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10450	10450	10450
5°	10450	10207	10227
10°	10364	9973	9942
15°	10228	9693	9606
20°	10043	9369	9222
25°	9846	9015	8810
30°	9608	8646	8375
35°	9354	8259	7889
40°	9091	7851	7457
45°	8806	7453	6997
50°	8493	7001	6462
55°	8183	6503	5969
60°	7813	5978	5396
65°	7372	5370	4804
70°	6920	4671	4121
75°	6166	3846	3332
80°	5254	2873	2451
85°	4059	1700	1351

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8806 cd/sqm

TEST NUMBER: P1027482

CATALOG NUMBER: S125DIP-B1090D610UB50-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.9	2.5
10°-20°	434.7	7.0
20°-30°	641.8	10.3
30°-40°	748.8	12.0
40°-50°	752.0	12.1
50°-60°	660.2	10.6
60°-70°	491.7	7.9
70°-80°	280.8	4.5
80°-90°	82.2	1.3
90°-100°	47.0	0.8
100°-110°	139.5	2.2
110°-120°	236.6	3.8
120°-130°	311.5	5.0
130°-140°	349.0	5.6
140°-150°	342.1	5.5
150°-160°	287.4	4.6
160°-170°	191.0	3.1
170°-180°	66.8	1.1
0°-30°	1230.4	19.8
0°-40°	1979.2	31.8
0°-60°	3391.4	54.6
0°-90°	4246.1	68.3
90°-120°	423.1	6.8
90°-150°	1425.7	22.9
90°-180°	1971.0	31.7
0°-180°	6217.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1631	1631	1631	1631	1631	
5°	1628	1626	1613	1624	1623	155
15°	1552	1548	1534	1541	1541	438
25°	1409	1403	1386	1388	1384	648
35°	1217	1212	1194	1187	1177	761
45°	996	991	976	960	956	767
55°	759	755	737	725	716	677
65°	512	510	496	484	479	508
75°	272	270	263	259	254	290
85°	71	72	72	71	68	78
90°	0	5	9	12	13	7
95°	36	37	42	46	47	37
105°	125	128	131	135	136	134
115°	237	239	240	240	239	234
125°	346	349	350	348	348	310
135°	450	453	453	453	451	346
145°	545	547	548	548	547	340
155°	623	623	624	626	623	287
165°	678	676	677	679	676	191
175°	704	702	702	706	702	67
180°	706	706	706	706	706	

TEST NUMBER: P1027482

CATALOG NUMBER: S125DIP-B1090D610UB50-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1631.0	1631.0	1631.0	1631.0	1631.0
2.5°	1636.1	1632.3	1619.4	1632.3	1631.0
5°	1628.4	1625.8	1612.9	1624.5	1623.2
7.5°	1616.8	1614.2	1600.0	1611.6	1610.3
10°	1600.0	1597.4	1583.2	1593.5	1592.3
12.5°	1579.4	1574.2	1561.3	1569.0	1569.0
15°	1552.3	1548.4	1534.2	1540.6	1540.6
17.5°	1523.9	1517.4	1503.2	1511.0	1504.5
20°	1486.4	1483.9	1467.1	1476.1	1469.7
22.5°	1449.0	1443.9	1428.4	1433.5	1429.7
25°	1409.0	1402.6	1385.8	1388.4	1384.5
27.5°	1362.6	1358.7	1341.9	1343.2	1339.4
30°	1317.4	1313.5	1294.2	1291.6	1287.7
32.5°	1268.4	1261.9	1245.2	1240.0	1232.3
35°	1216.8	1211.6	1193.5	1187.1	1176.8
37.5°	1163.9	1157.4	1140.6	1131.6	1125.2
40°	1109.7	1103.2	1085.2	1073.5	1069.7
42.5°	1051.6	1046.4	1028.4	1018.1	1011.6
45°	996.1	991.0	975.5	960.0	956.1
47.5°	935.5	936.8	917.4	901.9	892.9
50°	877.4	873.5	858.1	841.3	832.3
52.5°	818.1	815.5	798.7	784.5	774.2
55°	758.7	754.8	736.8	725.2	716.1
57.5°	695.5	694.2	678.7	663.2	659.4
60°	636.1	631.0	616.8	603.9	594.8
62.5°	574.2	570.3	558.7	544.5	538.1
65°	512.3	509.7	495.5	483.9	478.7
67.5°	451.6	446.5	436.1	425.8	423.2
70°	394.8	388.4	376.8	369.0	363.9
72.5°	332.9	329.0	322.6	313.5	308.4
75°	272.3	269.7	263.2	259.4	254.2
77.5°	215.5	214.2	210.3	207.7	203.9
80°	162.6	162.6	160.0	158.7	156.1
82.5°	116.1	113.5	113.5	111.0	111.0
85°	71.0	72.3	72.3	71.0	68.4
87.5°	34.8	34.8	33.5	33.5	31.0
90°	0.5	4.9	8.8	11.5	13.2
92.5°	16.5	19.2	24.2	28.0	29.1
95°	35.7	36.8	42.3	46.2	47.3
97.5°	55.0	55.5	63.2	66.5	67.0
100°	76.9	76.9	84.1	89.0	90.1
102.5°	100.6	103.3	106.1	111.6	113.2
105°	125.3	128.0	131.3	134.6	136.3
107.5°	152.2	155.0	157.7	159.4	159.4
110°	180.3	183.0	184.7	186.3	185.8

TEST NUMBER: P1027482

CATALOG NUMBER: S125DIP-B1090D610UB50-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	208.8	209.9	212.1	212.7	211.6
115°	236.9	239.1	240.2	239.6	239.1
117.5°	265.4	266.0	267.1	267.6	265.4
120°	291.8	294.6	295.1	295.1	292.9
122.5°	320.4	320.9	322.6	322.0	320.4
125°	345.7	349.0	349.5	348.4	347.9
127.5°	373.7	375.3	375.9	375.3	374.2
130°	398.4	401.2	402.3	401.7	400.6
132.5°	423.2	428.1	427.6	427.0	425.4
135°	449.5	452.8	453.4	453.4	451.2
137.5°	474.3	477.6	478.7	479.2	476.5
140°	497.9	500.6	502.3	503.4	500.6
142.5°	521.5	523.7	525.9	526.5	523.7
145°	544.6	546.8	548.5	548.5	546.8
147.5°	566.0	567.7	568.8	570.4	566.0
150°	587.5	586.9	589.1	589.1	588.0
152.5°	605.1	606.2	606.7	608.4	606.2
155°	623.2	623.2	623.7	625.9	623.2
157.5°	639.7	638.6	639.1	641.3	637.5
160°	654.0	652.3	652.9	655.1	652.3
162.5°	666.6	665.5	665.5	668.3	665.0
165°	677.6	676.5	677.1	679.3	676.0
167.5°	687.5	685.3	685.3	688.6	685.3
170°	695.2	693.0	693.0	696.3	692.4
172.5°	700.7	698.5	698.5	701.8	698.5
175°	704.5	702.3	702.3	705.6	701.8
177.5°	707.3	705.1	704.5	707.8	704.0
180°	706.2	706.2	706.2	706.2	706.2

(END OF REPORT)