

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: P1027596

Luminaire Tested: S125DIP-B1270D1270UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027596
REPORT IS A COMBINATION OF REPORTS P1001619 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D1270UB35-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

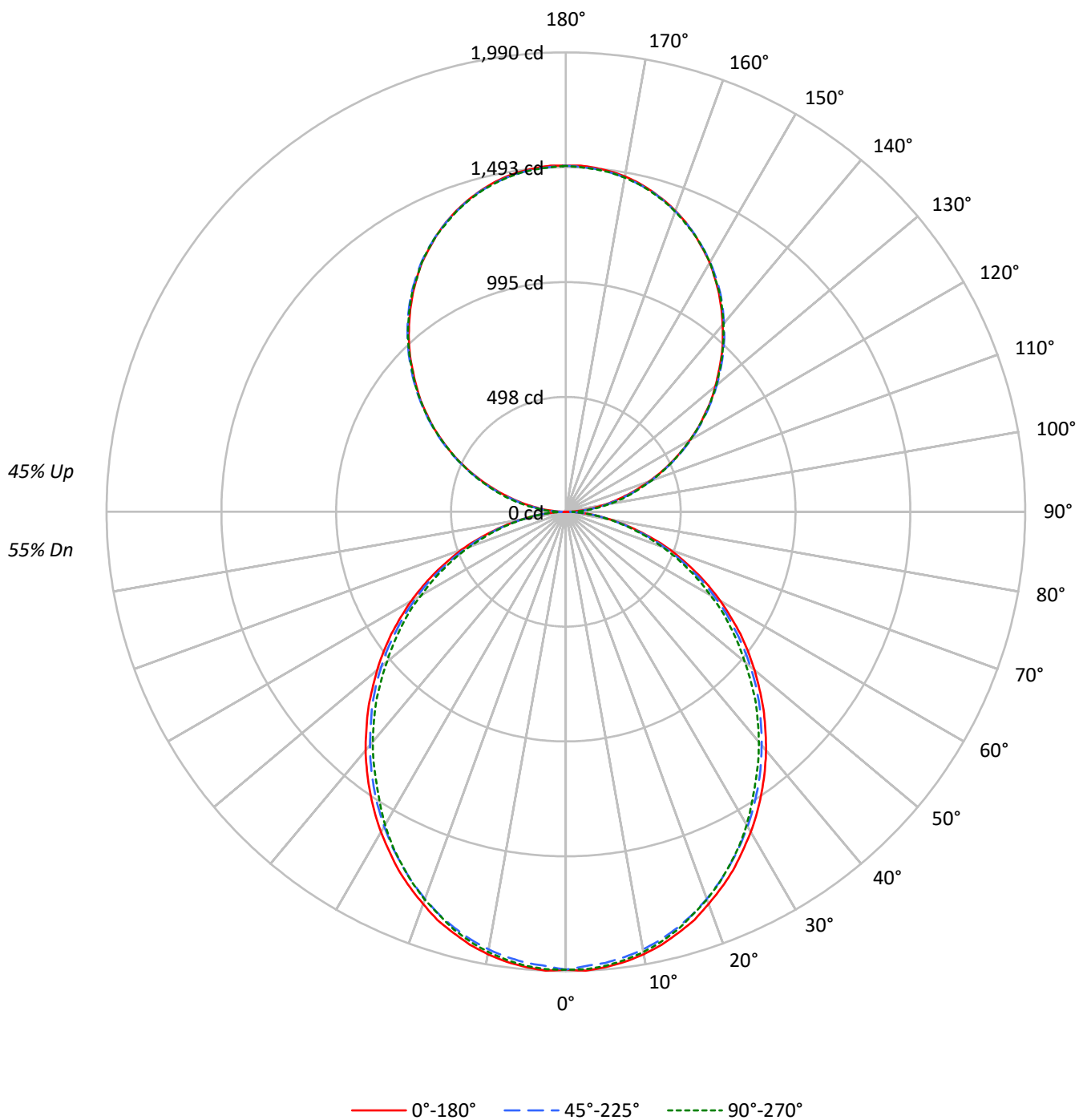
Lumens per Lamp: N/A
Luminaire Lumens: 9348.0 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 96.3
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: P1027596

CATALOG NUMBER: S125DIP-B1270D1270UB35-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1027596

CATALOG NUMBER: S125DIP-B1270D1270UB35-4F0-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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61
1	99	94	91	87	92	88	84	81	76	73	71	64	62	61	54	53	51
2	90	82	76	71	83	77	71	67	66	62	59	56	53	51	47	45	43
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	32
5	69	57	49	43	64	53	46	41	46	41	36	40	35	32	34	30	28
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	31	27	24
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	22
8	55	42	34	29	51	40	32	28	35	29	25	30	25	22	26	22	19
9	51	38	31	26	47	36	29	25	32	26	22	28	23	20	24	20	17
10	48	35	28	23	44	33	27	22	29	24	20	26	21	18	22	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12710	12710	12710
5°	12710	12415	12439
10°	12605	12130	12092
15°	12439	11790	11684
20°	12216	11395	11216
25°	11975	10964	10715
30°	11686	10516	10187
35°	11376	10046	9595
40°	11056	9548	9069
45°	10710	9064	8511
50°	10330	8515	7859
55°	9953	7909	7261
60°	9503	7270	6564
65°	8964	6530	5843
70°	8417	5681	5012
75°	7497	4677	4053
80°	6389	3494	2981
85°	4934	2067	1644

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10710 cd/sqm

TEST NUMBER: P1027596

CATALOG NUMBER: S125DIP-B1270D1270UB35-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.2	2.0
10°-20°	528.7	5.7
20°-30°	780.6	8.4
30°-40°	910.7	9.7
40°-50°	914.7	9.8
50°-60°	802.9	8.6
60°-70°	598.0	6.4
70°-80°	341.6	3.7
80°-90°	100.9	1.1
90°-100°	99.7	1.1
100°-110°	296.1	3.2
110°-120°	502.1	5.4
120°-130°	661.0	7.1
130°-140°	740.7	7.9
140°-150°	726.0	7.8
150°-160°	609.8	6.5
160°-170°	405.4	4.3
170°-180°	141.9	1.5
0°-30°	1496.5	16.0
0°-40°	2407.2	25.8
0°-60°	4124.8	44.1
0°-90°	5165.3	55.3
90°-120°	897.8	9.6
90°-150°	3025.6	32.4
90°-180°	4183.0	44.7
0°-180°	9348.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1984	1984	1984	1984	1984	
5°	1980	1977	1962	1976	1974	188
15°	1888	1883	1866	1874	1874	532
25°	1714	1706	1686	1689	1684	789
35°	1480	1474	1452	1444	1431	926
45°	1212	1205	1186	1168	1163	933
55°	923	918	896	882	871	824
65°	623	620	603	588	582	618
75°	331	328	320	315	309	353
85°	86	88	88	86	83	95
90°	1	10	19	24	28	11
95°	76	78	90	98	100	79
105°	266	272	279	286	289	284
115°	503	507	510	508	507	497
125°	734	741	742	739	738	657
135°	954	961	962	962	958	735
145°	1156	1160	1164	1164	1160	723
155°	1323	1323	1324	1328	1323	609
165°	1438	1436	1437	1442	1434	406
175°	1495	1490	1490	1498	1489	142
180°	1499	1499	1499	1499	1499	

TEST NUMBER: P1027596

CATALOG NUMBER: S125DIP-B1270D1270UB35-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1983.7	1983.7	1983.7	1983.7	1983.7
2.5°	1989.9	1985.2	1969.5	1985.2	1983.7
5°	1980.5	1977.4	1961.7	1975.8	1974.3
7.5°	1966.4	1963.3	1946.0	1960.1	1958.6
10°	1946.0	1942.9	1925.6	1938.2	1936.6
12.5°	1920.9	1914.6	1898.9	1908.3	1908.3
15°	1887.9	1883.2	1866.0	1873.8	1873.8
17.5°	1853.4	1845.6	1828.3	1837.7	1829.9
20°	1807.9	1804.8	1784.4	1795.3	1787.5
22.5°	1762.4	1756.1	1737.3	1743.6	1738.8
25°	1713.7	1705.9	1685.5	1688.6	1683.9
27.5°	1657.2	1652.5	1632.1	1633.7	1629.0
30°	1602.3	1597.6	1574.1	1570.9	1566.2
32.5°	1542.7	1534.8	1514.4	1508.2	1498.7
35°	1479.9	1473.6	1451.7	1443.8	1431.3
37.5°	1415.6	1407.7	1387.3	1376.3	1368.5
40°	1349.6	1341.8	1319.8	1305.7	1301.0
42.5°	1279.0	1272.7	1250.8	1238.2	1230.4
45°	1211.5	1205.3	1186.4	1167.6	1162.9
47.5°	1137.8	1139.4	1115.8	1097.0	1086.0
50°	1067.2	1062.5	1043.6	1023.2	1012.2
52.5°	995.0	991.8	971.4	954.2	941.6
55°	922.8	918.1	896.1	882.0	871.0
57.5°	845.9	844.3	825.5	806.6	801.9
60°	773.7	767.4	750.2	734.5	723.5
62.5°	698.4	693.7	679.5	662.3	654.4
65°	623.0	619.9	602.6	588.5	582.2
67.5°	549.3	543.0	530.4	517.9	514.7
70°	480.2	472.4	458.3	448.8	442.6
72.5°	404.9	400.2	392.3	381.4	375.1
75°	331.1	328.0	320.1	315.4	309.2
77.5°	262.1	260.5	255.8	252.7	248.0
80°	197.7	197.7	194.6	193.0	189.9
82.5°	141.2	138.1	138.1	135.0	135.0
85°	86.3	87.9	87.9	86.3	83.2
87.5°	42.4	42.4	40.8	40.8	37.7
90°	1.2	10.5	18.7	24.5	28.0
92.5°	35.0	40.8	51.3	59.5	61.8
95°	75.8	78.1	89.8	98.0	100.3
97.5°	116.6	117.8	134.1	141.1	142.3
100°	163.3	163.3	178.4	188.9	191.3
102.5°	213.4	219.3	225.1	236.8	240.3
105°	265.9	271.7	278.7	285.7	289.2
107.5°	323.1	328.9	334.7	338.2	338.2
110°	382.5	388.4	391.9	395.4	394.2



TEST NUMBER: P1027596

CATALOG NUMBER: S125DIP-B1270D1270UB35-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	443.2	445.5	450.2	451.4	449.0
115°	502.7	507.3	509.7	508.5	507.3
117.5°	563.3	564.5	566.8	568.0	563.3
120°	619.3	625.1	626.3	626.3	621.6
122.5°	679.9	681.1	684.6	683.4	679.9
125°	733.6	740.6	741.8	739.4	738.3
127.5°	793.1	796.6	797.7	796.6	794.2
130°	845.6	851.4	853.7	852.6	850.2
132.5°	898.0	908.5	907.4	906.2	902.7
135°	954.0	961.0	962.2	962.2	957.5
137.5°	1006.5	1013.5	1015.8	1017.0	1011.2
140°	1056.6	1062.5	1066.0	1068.3	1062.5
142.5°	1106.8	1111.5	1116.1	1117.3	1111.5
145°	1155.8	1160.4	1163.9	1163.9	1160.4
147.5°	1201.3	1204.8	1207.1	1210.6	1201.3
150°	1246.8	1245.6	1250.3	1250.3	1247.9
152.5°	1284.1	1286.4	1287.6	1291.1	1286.4
155°	1322.6	1322.6	1323.7	1328.4	1322.6
157.5°	1357.6	1355.2	1356.4	1361.0	1352.9
160°	1387.9	1384.4	1385.5	1390.2	1384.4
162.5°	1414.7	1412.4	1412.4	1418.2	1411.2
165°	1438.0	1435.7	1436.9	1441.5	1434.5
167.5°	1459.0	1454.4	1454.4	1461.3	1454.4
170°	1475.3	1470.7	1470.7	1477.7	1469.5
172.5°	1487.0	1482.3	1482.3	1489.3	1482.3
175°	1495.2	1490.5	1490.5	1497.5	1489.3
177.5°	1501.0	1496.3	1495.2	1502.2	1494.0
180°	1498.7	1498.7	1498.7	1498.7	1498.7

(END OF REPORT)