

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: P1027709

Luminaire Tested: S125DIP-B1270D850UB27-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027709
REPORT IS A COMBINATION OF REPORTS P1001762 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D850UB27-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

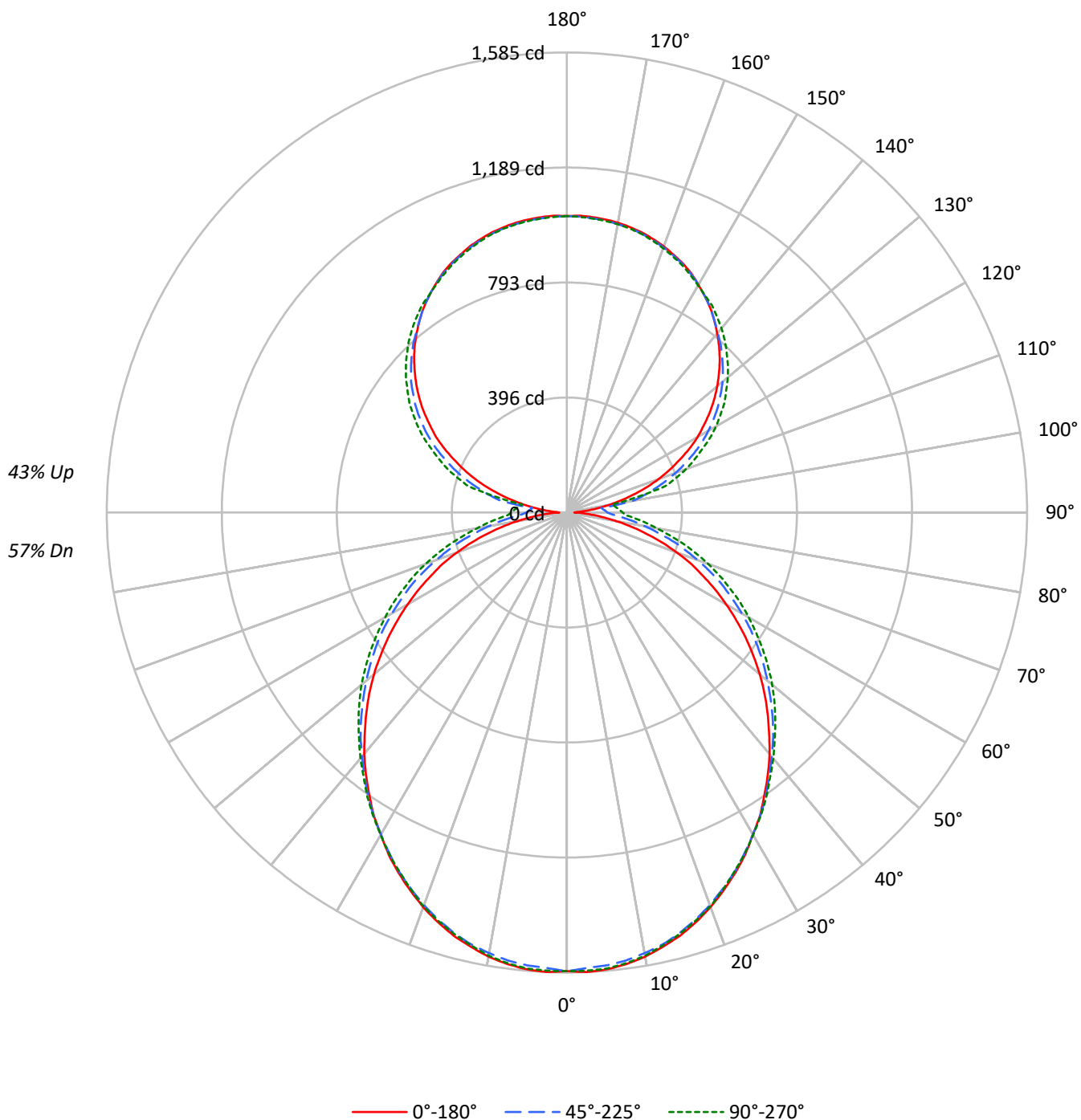
Lumens per Lamp: N/A
Luminaire Lumens: 8034.0 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 82.4
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: P1027709

CATALOG NUMBER: S125DIP-B1270D850UB27-4F0-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	109	109	109	109	101	101	101	101	87	87	87	75	75	75	63	63	63
1	99	94	90	86	92	87	84	80	75	73	70	64	62	60	54	53	51
2	89	81	75	69	83	76	70	65	66	61	57	56	53	50	47	45	43
3	81	71	64	57	75	67	60	54	58	52	48	49	45	42	42	38	36
4	74	63	55	48	69	59	51	46	51	45	41	44	39	36	37	34	31
5	68	56	48	41	63	52	45	39	46	40	35	39	34	31	33	30	27
6	63	50	42	36	58	47	39	34	41	35	30	35	31	27	30	26	23
7	58	45	37	31	54	43	35	30	37	31	27	32	27	24	27	24	21
8	54	41	33	28	50	39	31	26	34	28	24	29	25	21	25	21	19
9	50	38	30	25	47	35	28	23	31	25	21	27	22	19	23	19	17
10	47	34	27	22	44	32	26	21	29	23	19	25	20	17	22	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10124	10124	10124
5°	10140	9912	9936
10°	10065	9710	9682
15°	9942	9475	9370
20°	9776	9191	9059
25°	9581	8889	8684
30°	9344	8559	8343
35°	9122	8255	8028
40°	8897	7935	7711
45°	8641	7657	7426
50°	8397	7356	7169
55°	8103	7068	6870
60°	7782	6741	6564
65°	7445	6396	6219
70°	7061	5934	5859
75°	6453	5478	5421
80°	5658	4923	4937
85°	4871	4479	4682

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8641 cd/sqm

TEST NUMBER: P1027709

CATALOG NUMBER: S125DIP-B1270D850UB27-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	1.9
10°-20°	424.5	5.3
20°-30°	631.2	7.9
30°-40°	747.5	9.3
40°-50°	772.8	9.6
50°-60°	711.9	8.9
60°-70°	575.5	7.2
70°-80°	385.1	4.8
80°-90°	200.6	2.5
90°-100°	146.8	1.8
100°-110°	313.2	3.9
110°-120°	470.4	5.9
120°-130°	564.1	7.0
130°-140°	586.8	7.3
140°-150°	540.6	6.7
150°-160°	435.1	5.4
160°-170°	281.4	3.5
170°-180°	97.0	1.2
0°-30°	1205.2	15.0
0°-40°	1952.7	24.3
0°-60°	3437.5	42.8
0°-90°	4598.7	57.2
90°-120°	930.4	11.6
90°-150°	2621.8	32.6
90°-180°	3435.0	42.8
0°-180°	8034.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1580	1580	1580	1580	1580	
5°	1580	1577	1566	1579	1577	150
15°	1509	1510	1500	1509	1503	425
25°	1371	1376	1366	1373	1365	631
35°	1187	1198	1193	1198	1198	743
45°	978	995	1002	1013	1015	754
55°	751	776	801	818	824	672
65°	517	553	590	614	620	513
75°	285	325	375	406	414	302
85°	85	136	190	225	237	89
90°	26	81	139	179	192	19
95°	63	101	125	163	174	69
105°	236	264	311	342	352	251
115°	427	442	483	508	512	424
125°	601	604	635	657	663	536
135°	744	747	757	775	778	574
145°	861	861	861	869	871	538
155°	946	942	943	946	940	436
165°	999	994	995	999	993	282
175°	1021	1017	1018	1024	1017	97
180°	1021	1021	1021	1021	1021	

TEST NUMBER: P1027709

CATALOG NUMBER: S125DIP-B1270D850UB27-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1580.1	1580.1	1580.1	1580.1	1580.1
2.5°	1584.8	1581.7	1570.8	1581.7	1580.1
5°	1580.1	1577.0	1566.2	1578.6	1577.0
7.5°	1569.3	1567.7	1556.9	1567.7	1566.2
10°	1553.8	1553.8	1541.4	1552.3	1550.7
12.5°	1532.1	1533.7	1524.4	1532.1	1527.5
15°	1508.9	1510.4	1499.6	1508.9	1502.7
17.5°	1479.4	1482.5	1471.7	1479.4	1474.8
20°	1446.9	1450.0	1439.2	1443.8	1443.8
22.5°	1409.7	1415.9	1403.5	1409.7	1405.1
25°	1371.0	1375.7	1366.4	1372.6	1364.8
27.5°	1329.2	1335.4	1324.5	1329.2	1326.1
30°	1281.2	1290.4	1281.2	1284.3	1282.7
32.5°	1237.8	1245.5	1239.3	1242.4	1240.9
35°	1186.7	1197.5	1192.9	1197.5	1197.5
37.5°	1137.1	1146.4	1144.8	1151.0	1149.5
40°	1086.0	1098.4	1096.8	1103.0	1106.1
42.5°	1030.2	1047.2	1051.9	1059.6	1059.6
45°	977.5	994.6	1002.3	1013.1	1014.7
47.5°	923.3	938.8	951.2	966.7	969.8
50°	867.5	884.6	901.6	918.7	923.3
52.5°	808.7	830.3	852.0	870.6	873.7
55°	751.3	776.1	800.9	818.0	824.2
57.5°	692.5	721.9	749.8	768.4	773.0
60°	633.6	664.6	695.6	718.8	723.5
62.5°	576.3	607.3	641.4	667.7	673.9
65°	517.4	553.0	590.2	613.5	619.7
67.5°	463.2	497.3	534.5	562.3	570.1
70°	402.8	438.4	478.7	508.1	517.4
72.5°	343.9	381.1	426.0	458.6	464.7
75°	285.0	325.3	374.9	405.9	413.6
77.5°	227.7	274.2	320.7	354.8	361.0
80°	175.1	221.5	274.2	308.3	314.5
82.5°	127.0	176.6	230.8	263.4	275.8
85°	85.2	136.3	190.5	224.6	237.0
87.5°	54.2	103.8	156.5	192.1	202.9
90°	25.6	81.2	139.1	178.6	191.7
92.5°	36.1	74.2	132.9	170.8	182.5
95°	63.3	101.3	125.2	163.1	173.9
97.5°	99.6	141.4	120.5	154.5	166.2
100°	143.4	178.3	230.8	150.6	156.9
102.5°	188.1	220.6	270.1	302.6	248.3
105°	236.5	264.3	310.8	341.8	351.9
107.5°	286.5	308.2	354.6	386.4	392.6
110°	334.9	353.5	398.4	425.5	437.2

TEST NUMBER: P1027709

CATALOG NUMBER: S125DIP-B1270D850UB27-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	381.8	398.1	440.6	465.5	474.8
115°	427.2	441.8	482.9	507.8	512.5
117.5°	474.9	482.7	524.4	546.2	555.5
120°	520.3	524.2	562.1	587.0	592.5
122.5°	558.9	564.2	599.1	622.3	627.1
125°	600.6	604.3	635.3	657.0	662.6
127.5°	639.1	641.4	666.9	688.7	691.9
130°	675.4	677.7	700.2	719.6	723.5
132.5°	710.3	714.8	728.0	749.7	752.2
135°	744.3	747.3	756.7	775.3	778.5
137.5°	776.1	779.1	783.8	802.4	804.8
140°	805.6	807.1	807.9	826.5	828.1
142.5°	833.6	832.9	834.4	848.3	849.9
145°	860.9	860.9	860.9	869.3	871.0
147.5°	883.6	883.6	884.3	888.2	886.0
150°	906.3	904.8	906.3	907.8	903.3
152.5°	928.3	924.5	926.0	927.5	922.2
155°	946.4	941.9	943.4	945.7	939.6
157.5°	960.8	958.5	958.5	960.8	954.8
160°	976.0	971.4	972.2	975.2	969.1
162.5°	988.1	983.5	984.3	988.8	982.0
165°	998.7	994.1	994.9	999.4	993.4
167.5°	1007.0	1002.5	1003.2	1008.5	1001.7
170°	1013.8	1008.5	1009.3	1015.3	1008.5
172.5°	1018.4	1013.1	1014.6	1019.9	1013.1
175°	1021.4	1016.8	1017.6	1023.7	1016.8
177.5°	1023.7	1019.1	1019.9	1025.2	1019.1
180°	1021.4	1021.4	1021.4	1021.4	1021.4

(END OF REPORT)