

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: P1027738

Luminaire Tested: S125DIP-B1270D850UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027738
REPORT IS A COMBINATION OF REPORTS P1001806 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D850UB40-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

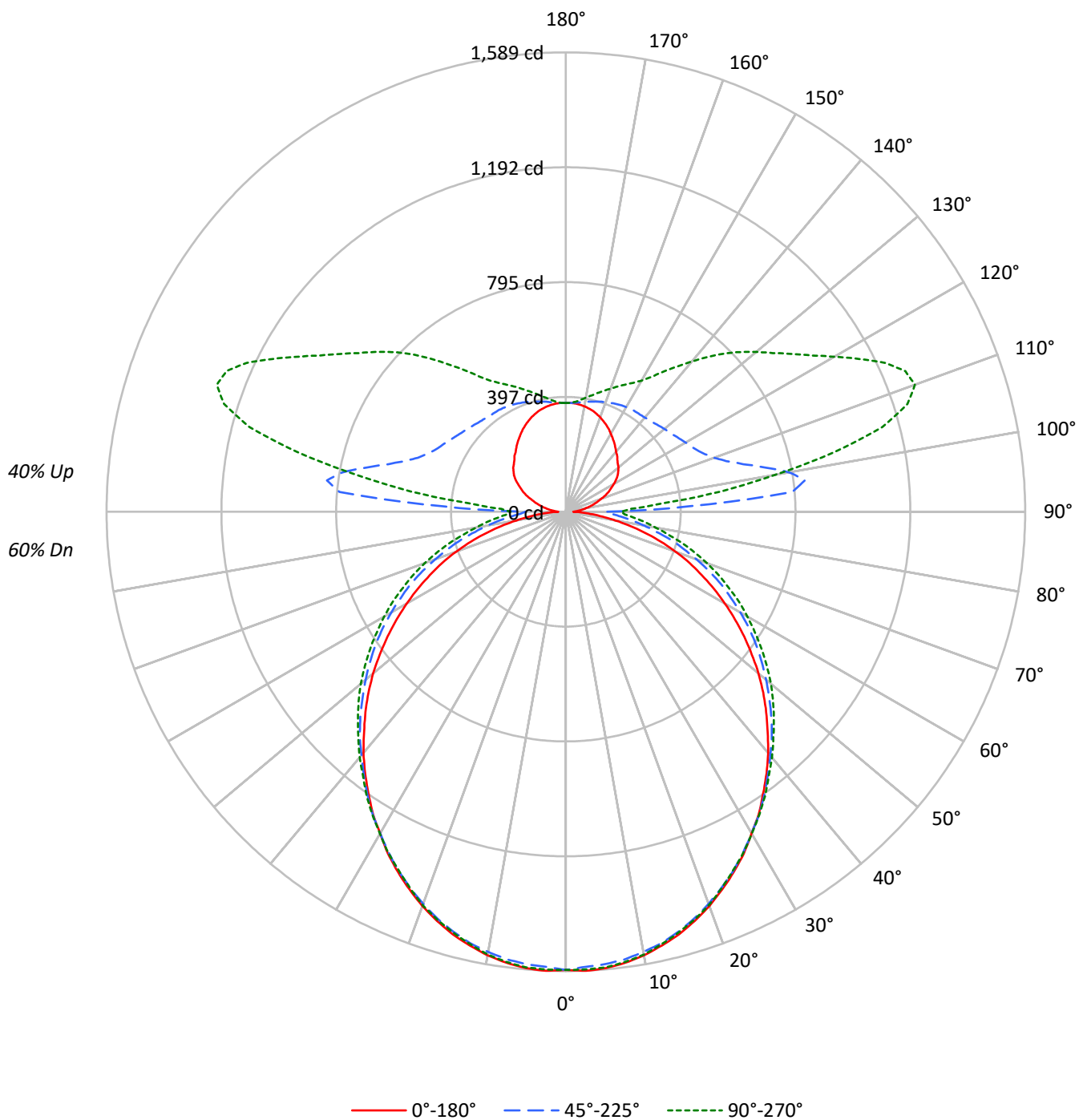
Lumens per Lamp: N/A
Luminaire Lumens: 7744.8 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1027738

CATALOG NUMBER: S125DIP-B1270D850UB40-4F0-XX-W2A-D4

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	102	102	102	102	89	89	89	76	76	76	65	65	65
1	99	94	90	86	92	88	84	81	76	74	71	66	64	62	56	54	53
2	90	82	75	70	83	77	71	66	67	62	58	57	54	51	49	46	44
3	82	72	64	58	76	67	60	55	58	53	49	50	46	43	43	40	37
4	75	63	55	49	69	59	52	46	52	46	41	45	40	36	38	35	32
5	69	56	48	42	64	53	45	39	46	40	35	40	35	31	34	31	28
6	63	50	42	36	59	47	40	34	42	35	31	36	31	27	31	27	24
7	58	46	37	32	54	43	35	30	38	32	27	33	28	24	28	24	21
8	54	41	33	28	50	39	32	27	34	28	24	30	25	22	26	22	19
9	50	38	30	25	47	36	29	24	32	26	22	28	23	19	24	20	17
10	47	35	27	22	44	33	26	21	29	23	19	26	21	18	22	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10153	10153	10153
5°	10170	9940	9965
10°	10093	9737	9710
15°	9970	9502	9397
20°	9805	9217	9085
25°	9608	8914	8709
30°	9370	8583	8367
35°	9148	8279	8051
40°	8922	7957	7733
45°	8666	7679	7447
50°	8421	7377	7189
55°	8127	7089	6890
60°	7804	6761	6582
65°	7466	6414	6236
70°	7080	5952	5876
75°	6473	5494	5437
80°	5675	4937	4951
85°	4883	4493	4696

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8666 cd/sqm

TEST NUMBER: P1027738

CATALOG NUMBER: S125DIP-B1270D850UB40-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.0	1.9
10°-20°	425.7	5.5
20°-30°	633.0	8.2
30°-40°	749.7	9.7
40°-50°	775.0	10.0
50°-60°	714.0	9.2
60°-70°	577.2	7.5
70°-80°	386.2	5.0
80°-90°	201.1	2.6
90°-100°	396.0	5.1
100°-110°	671.9	8.7
110°-120°	605.7	7.8
120°-130°	476.6	6.2
130°-140°	371.4	4.8
140°-150°	272.7	3.5
150°-160°	190.1	2.5
160°-170°	112.0	1.4
170°-180°	36.4	0.5
0°-30°	1208.7	15.6
0°-40°	1958.3	25.3
0°-60°	3447.3	44.5
0°-90°	4611.8	59.5
90°-120°	1673.6	21.6
90°-150°	2794.4	36.1
90°-180°	3133.0	40.5
0°-180°	7744.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1585	1585	1585	1585	1585	
5°	1585	1582	1571	1583	1582	150
15°	1513	1515	1504	1513	1507	426
25°	1375	1380	1370	1376	1369	633
35°	1190	1201	1196	1201	1201	745
45°	980	997	1005	1016	1018	756
55°	754	778	803	820	826	673
65°	519	555	592	615	621	515
75°	286	326	376	407	415	303
85°	85	137	191	225	238	89
90°	26	81	140	179	192	19
95°	45	135	786	453	337	42
105°	100	159	636	1200	1133	105
115°	163	205	502	1041	1218	160
125°	219	254	459	818	951	194
135°	252	301	433	668	774	196
145°	292	332	422	534	592	182
155°	331	356	412	465	485	152
165°	361	371	395	419	425	102
175°	376	376	379	383	382	36
180°	377	377	377	377	377	

TEST NUMBER: P1027738

CATALOG NUMBER: S125DIP-B1270D850UB40-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1584.7	1584.7	1584.7	1584.7	1584.7
2.5°	1589.3	1586.2	1575.3	1586.2	1584.7
5°	1584.7	1581.6	1570.7	1583.1	1581.6
7.5°	1573.8	1572.2	1561.4	1572.2	1570.7
10°	1558.2	1558.2	1545.8	1556.7	1555.1
12.5°	1536.5	1538.1	1528.7	1536.5	1531.8
15°	1513.2	1514.7	1503.9	1513.2	1507.0
17.5°	1483.7	1486.8	1475.9	1483.7	1479.0
20°	1451.1	1454.2	1443.3	1447.9	1447.9
22.5°	1413.8	1420.0	1407.6	1413.8	1409.1
25°	1374.9	1379.6	1370.3	1376.5	1368.7
27.5°	1333.0	1339.2	1328.3	1333.0	1329.9
30°	1284.8	1294.1	1284.8	1287.9	1286.4
32.5°	1241.3	1249.1	1242.9	1246.0	1244.4
35°	1190.0	1200.9	1196.3	1200.9	1200.9
37.5°	1140.3	1149.7	1148.1	1154.3	1152.8
40°	1089.1	1101.5	1099.9	1106.2	1109.3
42.5°	1033.1	1050.2	1054.9	1062.7	1062.7
45°	980.3	997.4	1005.2	1016.0	1017.6
47.5°	925.9	941.5	953.9	969.4	972.5
50°	870.0	887.1	904.2	921.3	925.9
52.5°	811.0	832.7	854.5	873.1	876.2
55°	753.5	778.3	803.2	820.3	826.5
57.5°	694.5	724.0	751.9	770.6	775.2
60°	635.4	666.5	697.6	720.9	725.5
62.5°	577.9	609.0	643.2	669.6	675.8
65°	518.9	554.6	591.9	615.2	621.4
67.5°	464.5	498.7	536.0	564.0	571.7
70°	403.9	439.7	480.1	509.6	518.9
72.5°	344.9	382.2	427.2	459.9	466.1
75°	285.9	326.3	376.0	407.0	414.8
77.5°	228.4	275.0	321.6	355.8	362.0
80°	175.6	222.2	275.0	309.2	315.4
82.5°	127.4	177.1	231.5	264.1	276.5
85°	85.4	136.7	191.1	225.3	237.7
87.5°	54.4	104.1	156.9	192.6	203.5
90°	25.7	81.4	139.5	179.0	191.5
92.5°	33.2	129.0	424.1	236.2	222.4
95°	45.3	134.6	786.1	452.8	336.9
97.5°	57.3	136.0	833.8	691.0	541.7
100°	70.2	141.6	785.0	911.1	733.6
102.5°	84.6	150.2	706.7	1096.1	950.5
105°	99.8	158.8	635.8	1200.3	1133.4
107.5°	114.1	169.7	582.6	1225.6	1239.5
110°	130.1	181.4	545.2	1187.8	1284.9

TEST NUMBER: P1027738

CATALOG NUMBER: S125DIP-B1270D850UB40-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	147.6	193.1	520.8	1117.5	1271.0
115°	162.7	205.1	502.5	1041.0	1218.5
117.5°	176.4	217.4	489.4	969.5	1144.8
120°	191.5	230.7	478.7	909.8	1071.7
122.5°	205.9	242.0	468.6	859.0	1006.2
125°	218.8	253.7	459.4	818.4	951.4
127.5°	227.9	266.6	451.6	780.9	901.8
130°	237.8	280.2	445.5	744.7	860.0
132.5°	243.8	292.4	439.2	706.2	818.0
135°	252.1	301.2	433.0	667.7	773.8
137.5°	262.8	310.6	429.2	629.2	726.5
140°	270.4	318.6	425.2	593.4	678.6
142.5°	281.0	324.6	422.9	561.8	633.7
145°	291.6	332.2	422.1	533.6	592.5
147.5°	301.4	339.0	420.6	509.9	553.6
150°	311.3	345.0	418.3	491.2	524.0
152.5°	321.9	351.2	415.3	478.0	502.6
155°	331.0	356.1	411.5	465.0	485.2
157.5°	339.4	361.0	407.7	452.9	469.2
160°	347.7	364.8	403.9	440.8	453.3
162.5°	354.6	368.6	399.4	429.8	438.8
165°	361.4	371.2	394.8	418.7	425.2
167.5°	366.0	372.8	390.2	408.5	412.3
170°	370.5	374.6	386.5	398.6	400.9
172.5°	373.5	375.5	381.9	390.6	390.2
175°	375.8	375.8	378.9	383.4	381.9
177.5°	377.3	375.8	376.6	378.9	376.6
180°	376.6	376.6	376.6	376.6	376.6

(END OF REPORT)