

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: P1011158

Luminaire Tested: S123DIP-B1000D585UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011158
REPORT IS A COMBINATION OF REPORTS P989206 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D585UB27-4F0-XX-W2A-F1
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

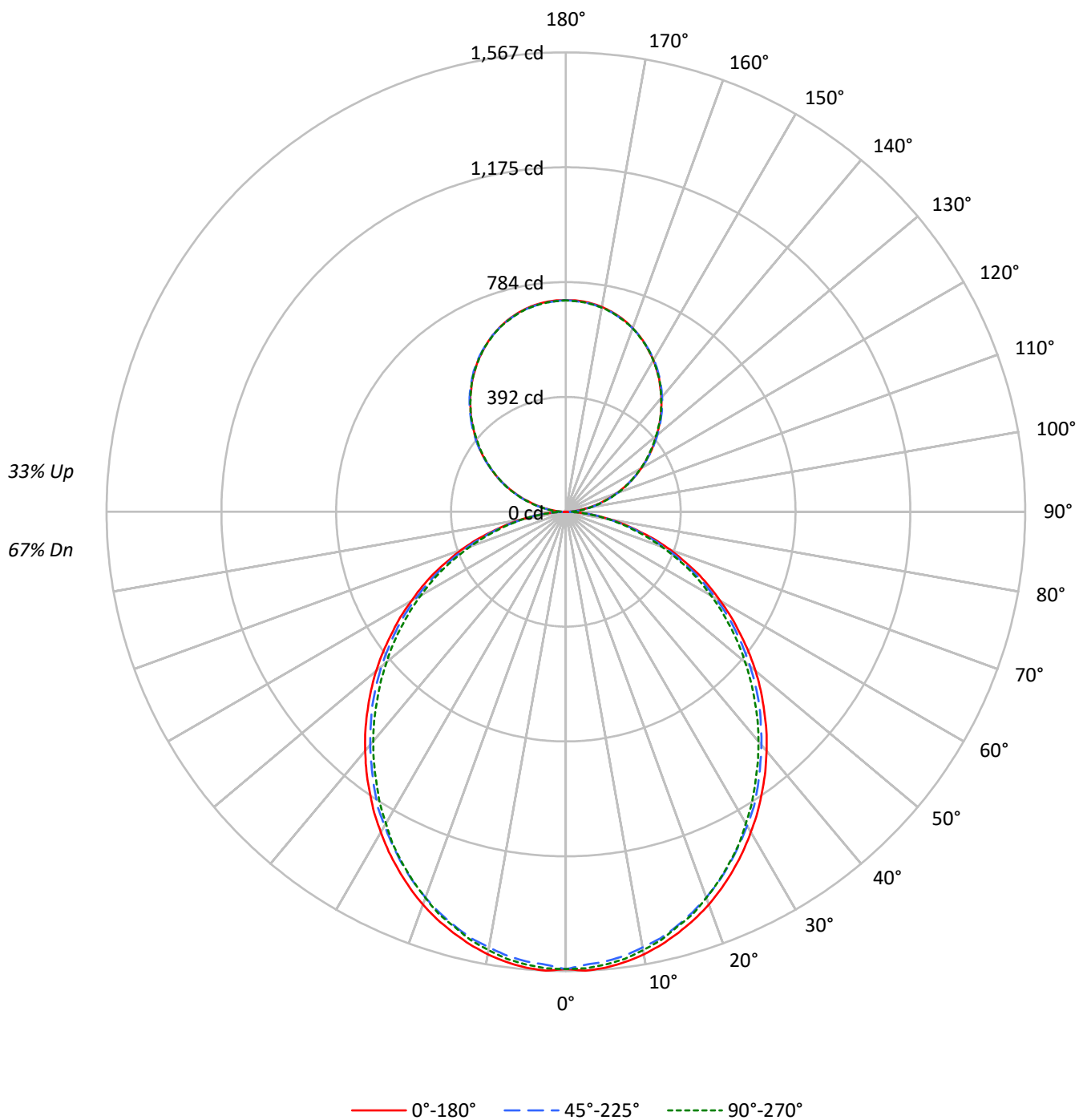
Lumens per Lamp: N/A
Luminaire Lumens: 6060.0 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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: P1011158

CATALOG NUMBER: S123DIP-B1000D585UB27-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1011158

CATALOG NUMBER: S123DIP-B1000D585UB27-4F0-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
RCR																	
0	111	111	111	111	105	105	105	105	93	93	93		82	82	82		72
1	102	97	93	89	96	92	88	85	81	79	76		72	70	68		63
2	92	85	78	73	87	80	74	70	71	67	63		63	60	57		56
3	84	75	67	61	79	70	64	58	63	57	53		56	52	48		49
4	77	66	58	52	72	63	55	49	56	50	45		50	45	41		44
5	71	59	50	44	67	56	48	43	50	44	39		45	40	36		40
6	65	53	45	39	61	50	43	37	45	39	34		40	35	31		36
7	61	48	40	34	57	46	38	33	41	35	30		37	32	28		33
8	56	44	36	30	53	41	34	29	38	31	27		34	29	25		30
9	52	40	32	27	49	38	31	26	34	28	24		31	26	22		28
10	49	37	29	24	46	35	28	23	32	26	22		29	24	20		26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16792	16792	16792
5°	16833	16212	16188
10°	16684	15663	15503
15°	16451	15092	14756
20°	16186	14460	14016
25°	15842	13791	13225
30°	15465	13098	12392
35°	15071	12392	11566
40°	14657	11650	10753
45°	14204	10928	9903
50°	13742	10122	9050
55°	13149	9282	8186
60°	12537	8356	7267
65°	11966	7354	6308
70°	11140	6244	5189
75°	9951	4944	4027
80°	8594	3475	2849
85°	6705	1869	1427

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14204 cd/sqm

TEST NUMBER: P1011158

CATALOG NUMBER: S123DIP-B1000D585UB27-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.1	2.4
10°-20°	415.3	6.9
20°-30°	613.3	10.1
30°-40°	716.3	11.8
40°-50°	720.1	11.9
50°-60°	632.6	10.4
60°-70°	471.1	7.8
70°-80°	268.1	4.4
80°-90°	77.8	1.3
90°-100°	46.4	0.8
100°-110°	140.5	2.3
110°-120°	239.2	3.9
120°-130°	314.7	5.2
130°-140°	353.8	5.8
140°-150°	347.8	5.7
150°-160°	292.8	4.8
160°-170°	194.9	3.2
170°-180°	68.3	1.1
0°-30°	1175.6	19.4
0°-40°	1891.9	31.2
0°-60°	3244.6	53.5
0°-90°	4061.5	67.0
90°-120°	426.2	7.0
90°-150°	1442.5	23.8
90°-180°	1998.0	33.0
0°-180°	6060.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1560	1560	1560	1560	1560	
5°	1561	1555	1540	1553	1551	148
15°	1486	1481	1463	1474	1466	419
25°	1349	1341	1324	1325	1321	622
35°	1167	1159	1142	1134	1127	730
45°	956	951	934	918	911	738
55°	726	724	707	692	685	650
65°	495	488	475	464	460	488
75°	262	256	252	246	241	279
85°	70	67	67	64	64	75
90°	1	6	14	16	17	7
95°	33	37	42	44	44	37
105°	128	129	134	134	135	136
115°	241	242	241	242	241	238
125°	352	354	353	351	348	314
135°	457	461	460	458	457	352
145°	555	556	558	557	555	346
155°	635	635	636	638	634	292
165°	692	690	690	694	690	195
175°	720	717	717	721	717	68
180°	721	721	721	721	721	

TEST NUMBER: P1011158

CATALOG NUMBER: S123DIP-B1000D585UB27-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1560.0	1560.0	1560.0	1560.0	1560.0
2.5°	1566.7	1561.3	1546.6	1560.0	1558.7
5°	1561.3	1554.6	1539.9	1553.3	1550.6
7.5°	1549.3	1542.6	1527.8	1539.9	1538.5
10°	1533.2	1526.5	1509.0	1521.1	1518.4
12.5°	1511.7	1506.3	1490.3	1498.3	1497.0
15°	1486.2	1480.9	1463.4	1474.2	1466.1
17.5°	1458.1	1451.4	1433.9	1442.0	1439.3
20°	1425.9	1417.8	1400.4	1405.7	1401.7
22.5°	1389.7	1381.6	1364.2	1368.2	1362.8
25°	1349.4	1341.4	1323.9	1325.3	1321.2
27.5°	1307.8	1299.8	1281.0	1282.3	1278.3
30°	1262.2	1255.5	1236.7	1236.7	1227.3
32.5°	1216.6	1207.2	1193.8	1184.4	1180.4
35°	1167.0	1158.9	1141.5	1133.5	1126.7
37.5°	1117.4	1106.6	1089.2	1079.8	1075.8
40°	1065.0	1057.0	1038.2	1027.5	1022.1
42.5°	1012.7	1003.3	984.6	973.8	968.5
45°	956.4	951.0	933.6	917.5	910.8
47.5°	901.4	893.3	877.3	861.2	855.8
50°	845.1	838.4	820.9	806.2	798.1
52.5°	786.0	782.0	763.2	751.2	743.1
55°	725.7	724.3	706.9	692.1	685.4
57.5°	669.3	664.0	650.6	637.1	629.1
60°	607.6	606.3	590.2	578.1	571.4
62.5°	552.6	548.6	532.5	520.4	516.4
65°	495.0	488.3	474.8	464.1	460.1
67.5°	433.3	427.9	417.2	407.8	402.4
70°	378.3	370.2	362.2	352.8	346.1
72.5°	320.6	315.2	305.8	297.8	295.1
75°	261.6	256.2	252.2	245.5	241.4
77.5°	209.3	206.6	201.2	195.8	195.8
80°	158.3	154.3	151.6	150.2	150.2
82.5°	108.7	108.7	108.7	106.0	104.6
85°	69.8	67.1	67.1	64.4	64.4
87.5°	34.9	30.9	29.5	28.2	28.2
90°	0.6	6.2	13.6	15.9	17.0
92.5°	17.0	20.4	23.8	25.5	24.4
95°	33.4	37.4	41.9	44.2	44.2
97.5°	55.0	57.8	61.2	64.0	63.5
100°	77.1	80.5	83.3	85.0	86.1
102.5°	102.6	104.3	108.2	109.9	109.4
105°	127.5	128.6	133.7	133.7	134.8
107.5°	156.9	157.5	159.8	161.5	160.9
110°	184.1	185.3	186.4	188.7	187.5



TEST NUMBER: P1011158

CATALOG NUMBER: S123DIP-B1000D585UB27-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	212.5	213.0	213.0	215.9	215.9
115°	240.8	242.5	241.4	241.9	241.4
117.5°	269.7	270.3	269.1	269.1	267.4
120°	296.3	299.7	296.9	296.3	295.2
122.5°	324.1	326.4	325.2	323.5	321.8
125°	352.4	354.1	353.0	350.7	348.4
127.5°	378.5	381.9	380.7	377.3	375.1
130°	404.5	409.1	407.4	405.1	401.1
132.5°	430.6	435.1	434.0	431.2	428.3
135°	457.2	460.6	460.1	457.8	456.7
137.5°	481.6	484.4	486.1	483.3	481.6
140°	507.1	509.9	510.5	509.9	506.0
142.5°	530.3	533.2	534.3	533.7	530.9
145°	554.7	555.8	557.5	556.9	554.7
147.5°	575.6	577.9	579.6	579.6	576.2
150°	597.7	598.9	600.0	600.0	596.6
152.5°	615.9	617.6	618.1	619.3	616.4
155°	635.1	635.1	635.7	638.0	634.0
157.5°	651.6	651.0	651.6	653.8	650.4
160°	666.9	665.7	665.7	668.6	666.3
162.5°	680.5	678.8	679.3	682.2	678.2
165°	691.8	690.1	690.1	693.5	689.5
167.5°	701.4	699.2	699.7	703.1	699.7
170°	709.4	707.1	707.1	711.1	707.1
172.5°	715.6	713.3	713.3	716.7	712.8
175°	719.6	717.3	717.3	720.7	716.7
177.5°	721.8	719.6	719.6	723.0	719.0
180°	721.3	721.3	721.3	721.3	721.3

(END OF REPORT)