

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: P1010524

Luminaire Tested: S123DIP-B1165D585UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010524
REPORT IS A COMBINATION OF REPORTS P989518 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1165D585UB2750-4F0-XX-W2A-F_2700K
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

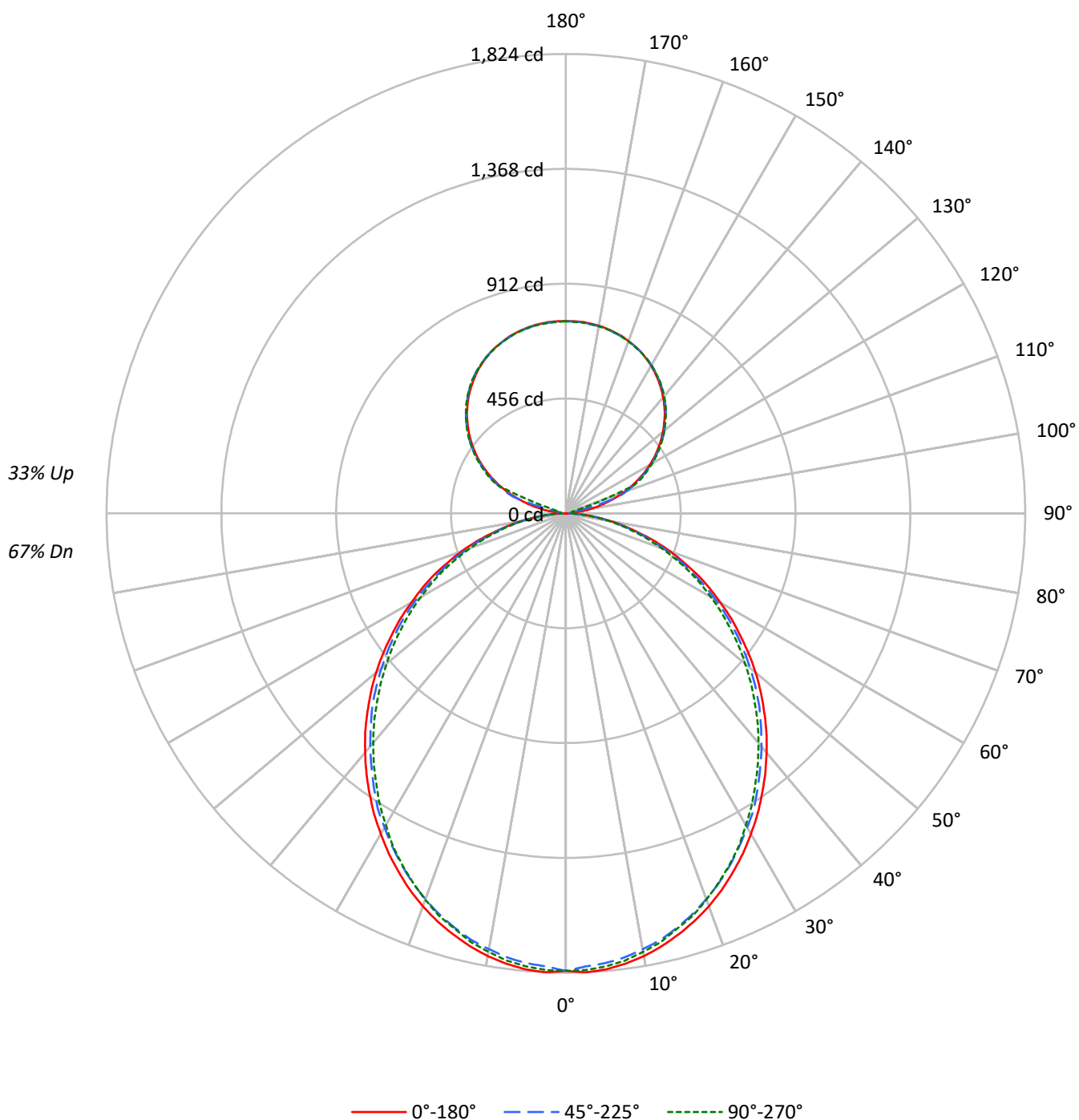
Lumens per Lamp: N/A
Luminaire Lumens: 7054.0 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 76.7
Input Voltage (V): 120
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: P1010524

CATALOG NUMBER: S123DIP-B1165D585UB2750-4F0-XX-W2A-F_2700K

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	50	30	10
RCR																				
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67		
1	102	97	93	89	96	92	88	85	81	79	76	72	70	68	63	62	61	56		
2	92	85	78	73	87	80	74	70	71	67	63	63	60	57	56	53	51	47		
3	84	75	67	61	79	70	64	58	63	57	53	56	52	48	49	46	43	40		
4	77	66	58	52	72	63	55	49	56	50	45	50	45	41	44	40	37	34		
5	71	59	50	44	67	56	48	43	50	44	39	45	40	36	40	36	33	30		
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	36	32	29	26		
7	61	48	40	34	57	46	38	33	41	35	30	37	32	28	33	29	25	23		
8	56	44	36	30	53	41	34	29	38	31	27	34	29	25	30	26	23	21		
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	24	21	19		
10	49	37	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19550	19550	19550
5°	19600	18876	18848
10°	19425	18237	18050
15°	19155	17572	17181
20°	18845	16834	16318
25°	18444	16057	15398
30°	18006	15251	14429
35°	17547	14428	13467
40°	17066	13565	12519
45°	16537	12723	11530
50°	15999	11785	10537
55°	15309	10807	9531
60°	14599	9730	8461
65°	13931	8563	7344
70°	12969	7269	6041
75°	11583	5755	4690
80°	10006	4046	3317
85°	7800	2175	1662

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 16537 cd/sqm

TEST NUMBER: P1010524

CATALOG NUMBER: S123DIP-B1165D585UB2750-4F0-XX-W2A-F_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.2	2.4
10°-20°	483.5	6.9
20°-30°	714.1	10.1
30°-40°	834.0	11.8
40°-50°	838.4	11.9
50°-60°	736.5	10.4
60°-70°	548.5	7.8
70°-80°	312.1	4.4
80°-90°	90.3	1.3
90°-100°	26.9	0.4
100°-110°	130.1	1.8
110°-120°	318.7	4.5
120°-130°	404.6	5.7
130°-140°	432.2	6.1
140°-150°	404.2	5.7
150°-160°	326.0	4.6
160°-170°	210.4	3.0
170°-180°	72.5	1.0
0°-30°	1368.8	19.4
0°-40°	2202.7	31.2
0°-60°	3777.6	53.6
0°-90°	4728.5	67.0
90°-120°	475.6	6.7
90°-150°	1716.6	24.3
90°-180°	2325.0	33.0
0°-180°	7054.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1816	1816	1816	1816	1816	
5°	1818	1810	1793	1808	1805	172
15°	1730	1724	1704	1716	1707	488
25°	1571	1562	1541	1543	1538	724
35°	1359	1349	1329	1320	1312	850
45°	1114	1107	1087	1068	1060	860
55°	845	843	823	806	798	757
65°	576	568	553	540	536	569
75°	304	298	294	286	281	325
85°	81	78	78	75	75	87
90°	1	6	14	16	17	8
95°	35	11	18	22	22	41
105°	169	175	124	24	25	179
115°	317	320	325	331	333	313
125°	447	451	453	454	456	399
135°	556	559	562	563	562	428
145°	642	646	647	648	648	402
155°	707	706	706	709	706	326
165°	745	744	743	748	744	211
175°	763	760	760	764	760	73
180°	763	763	763	763	763	

TEST NUMBER: P1010524

CATALOG NUMBER: S123DIP-B1165D585UB2750-4F0-XX-W2A-F_2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1816.3	1816.3	1816.3	1816.3	1816.3
2.5°	1824.1	1817.9	1800.7	1816.3	1814.7
5°	1817.9	1810.0	1792.9	1808.5	1805.4
7.5°	1803.8	1796.0	1778.8	1792.9	1791.3
10°	1785.1	1777.2	1756.9	1771.0	1767.9
12.5°	1760.1	1753.8	1735.1	1744.5	1742.9
15°	1730.4	1724.1	1703.8	1716.3	1707.0
17.5°	1697.6	1689.8	1669.5	1678.9	1675.7
20°	1660.1	1650.7	1630.4	1636.7	1632.0
22.5°	1618.0	1608.6	1588.3	1593.0	1586.7
25°	1571.1	1561.7	1541.4	1543.0	1538.3
27.5°	1522.7	1513.3	1491.5	1493.0	1488.3
30°	1469.6	1461.8	1439.9	1439.9	1429.0
32.5°	1416.5	1405.6	1389.9	1379.0	1374.3
35°	1358.7	1349.3	1329.0	1319.7	1311.9
37.5°	1300.9	1288.4	1268.1	1257.2	1252.5
40°	1240.0	1230.6	1208.8	1196.3	1190.0
42.5°	1179.1	1168.2	1146.3	1133.8	1127.6
45°	1113.5	1107.3	1087.0	1068.2	1060.4
47.5°	1049.5	1040.1	1021.4	1002.6	996.4
50°	983.9	976.1	955.8	938.6	929.2
52.5°	915.2	910.5	888.6	874.6	865.2
55°	844.9	843.3	823.0	805.9	798.0
57.5°	779.3	773.1	757.4	741.8	732.5
60°	707.5	705.9	687.2	673.1	665.3
62.5°	643.4	638.7	620.0	606.0	601.3
65°	576.3	568.5	552.9	540.4	535.7
67.5°	504.4	498.2	485.7	474.8	468.5
70°	440.4	431.0	421.7	410.7	402.9
72.5°	373.3	367.0	356.1	346.7	343.6
75°	304.5	298.3	293.6	285.8	281.1
77.5°	243.6	240.5	234.3	228.0	228.0
80°	184.3	179.6	176.5	174.9	174.9
82.5°	126.5	126.5	126.5	123.4	121.8
85°	81.2	78.1	78.1	75.0	75.0
87.5°	40.6	35.9	34.4	32.8	32.8
90°	0.6	6.2	13.6	15.9	17.0
92.5°	13.0	9.6	14.7	18.7	19.3
95°	34.6	11.3	17.6	21.5	21.5
97.5°	62.9	47.0	18.1	22.7	23.2
100°	95.8	107.1	18.7	23.2	23.8
102.5°	133.2	140.5	41.9	23.2	24.4
105°	168.9	175.1	124.1	23.8	24.9
107.5°	206.9	212.0	220.5	133.2	58.9
110°	244.8	249.4	255.6	236.9	155.8

TEST NUMBER: P1010524

CATALOG NUMBER: S123DIP-B1165D585UB2750-4F0-XX-W2A-F_2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	281.1	285.1	291.3	296.4	295.3
115°	316.8	320.2	325.3	331.0	333.2
117.5°	351.9	355.9	358.7	363.3	363.8
120°	384.2	389.3	391.0	395.6	395.6
122.5°	417.1	421.1	423.3	426.2	426.7
125°	446.6	451.1	453.4	454.5	455.6
127.5°	476.0	480.6	483.4	485.1	484.0
130°	503.2	507.8	510.0	512.3	511.2
132.5°	529.3	533.9	535.6	537.8	536.1
135°	556.0	559.4	561.6	563.3	561.6
137.5°	578.6	583.2	584.3	587.1	586.0
140°	601.3	604.7	606.4	608.7	607.5
142.5°	622.3	625.7	627.4	629.1	627.4
145°	641.5	645.5	646.6	647.8	647.8
147.5°	660.2	663.1	664.2	665.3	662.5
150°	677.2	678.9	680.1	681.2	679.5
152.5°	692.5	693.1	693.7	695.9	693.1
155°	706.7	705.6	706.1	709.0	705.6
157.5°	718.0	718.0	717.5	720.9	716.3
160°	728.2	727.7	727.1	730.5	726.5
162.5°	737.9	736.2	735.6	739.6	736.2
165°	745.2	743.5	743.0	747.5	743.5
167.5°	751.5	749.2	749.2	753.7	749.2
170°	756.6	754.3	754.3	758.8	754.3
172.5°	760.0	757.1	757.7	762.2	757.1
175°	762.8	760.0	760.5	764.5	760.0
177.5°	763.9	761.1	761.7	766.2	760.5
180°	762.8	762.8	762.8	762.8	762.8

(END OF REPORT)