

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: P1010444

Luminaire Tested: S123DIP-B1000D585UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010444
REPORT IS A COMBINATION OF REPORTS P989213 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D585UB2750-4F0-XX-W2A-D_2700K
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

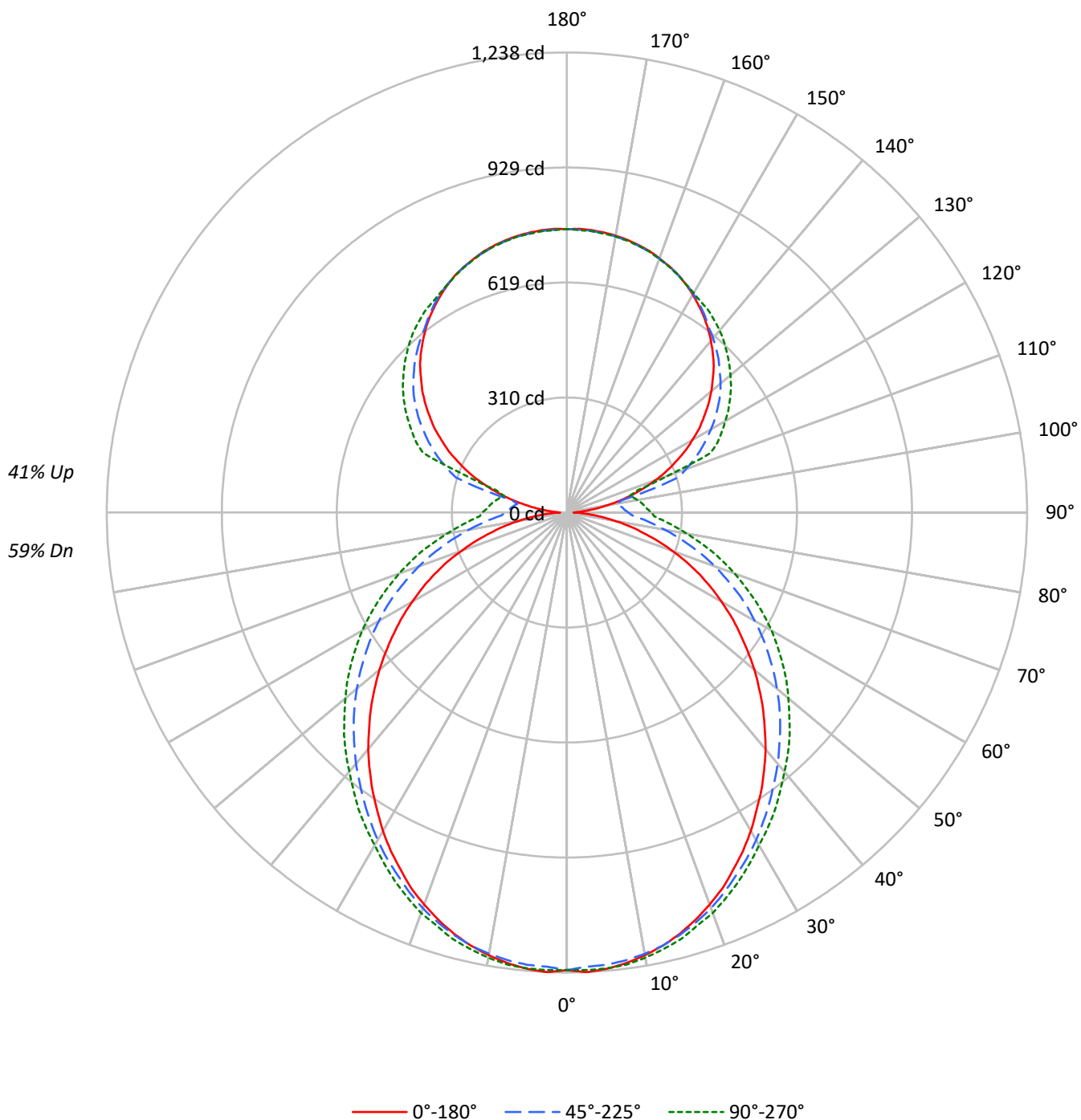
Lumens per Lamp: N/A
Luminaire Lumens: 6465.0 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 62.2
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

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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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	109	109	109	109	102	102	102	102	88	88	88		76	76	76		64	64	64	59
1	98	94	89	85	92	87	83	80	75	73	70		65	63	61		55	53	52	47
2	89	81	74	69	83	76	70	65	65	61	57		56	53	50		47	45	43	38
3	81	71	63	57	75	66	59	53	57	52	47		49	45	41		42	38	36	32
4	74	62	54	48	69	58	51	45	51	45	40		44	39	35		37	33	30	27
5	68	56	47	41	63	52	44	39	45	39	34		39	34	30		33	29	26	23
6	62	50	41	35	58	47	39	33	41	35	30		35	30	26		30	26	23	20
7	58	45	37	31	54	42	35	29	37	31	26		32	27	23		27	23	20	18
8	54	41	33	27	50	38	31	26	34	28	23		29	24	21		25	21	18	16
9	50	37	29	24	46	35	28	23	31	25	21		27	22	19		23	19	16	14
10	47	34	27	22	43	32	25	21	28	23	19		25	20	17		22	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13254	13254	13254
5°	13289	12864	12854
10°	13165	12516	12420
15°	12991	12131	11960
20°	12743	11702	11467
25°	12439	11219	10956
30°	12127	10782	10442
35°	11778	10323	10023
40°	11445	9903	9581
45°	11075	9499	9217
50°	10708	9096	8821
55°	10304	8682	8458
60°	9909	8260	8084
65°	9500	7811	7650
70°	8888	7306	7200
75°	8114	6732	6735
80°	7210	6147	6207
85°	6311	5678	5827

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11075 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.8	1.8
10°-20°	333.0	5.2
20°-30°	497.9	7.7
30°-40°	594.5	9.2
40°-50°	622.0	9.6
50°-60°	583.7	9.0
60°-70°	487.5	7.5
70°-80°	348.6	5.4
80°-90°	209.0	3.2
90°-100°	157.3	2.4
100°-110°	225.9	3.5
110°-120°	382.7	5.9
120°-130°	441.1	6.8
130°-140°	448.6	6.9
140°-150°	407.6	6.3
150°-160°	326.0	5.0
160°-170°	210.4	3.3
170°-180°	72.5	1.1
0°-30°	947.7	14.7
0°-40°	1542.2	23.9
0°-60°	2747.9	42.5
0°-90°	3793.1	58.7
90°-120°	765.8	11.8
90°-150°	2063.0	31.9
90°-180°	2672.0	41.3
0°-180°	6465.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1231	1231	1231	1231	1231	
5°	1233	1230	1222	1233	1231	117
15°	1174	1178	1176	1190	1188	331
25°	1060	1073	1077	1094	1094	488
35°	912	934	951	971	976	570
45°	746	778	812	837	848	575
55°	569	613	661	697	708	509
65°	393	445	504	544	558	388
75°	213	276	343	388	404	228
85°	66	133	204	250	263	68
90°	18	89	165	213	228	14
95°	49	78	150	196	209	53
105°	180	218	225	162	175	190
115°	324	343	396	434	447	320
125°	451	455	496	526	536	403
135°	559	561	578	604	608	430
145°	643	646	647	658	664	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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1231.3	1231.3	1231.3	1231.3	1231.3
2.5°	1238.0	1233.9	1223.2	1233.9	1232.6
5°	1232.6	1229.9	1221.9	1232.6	1231.3
7.5°	1223.2	1223.2	1215.2	1228.6	1227.2
10°	1209.8	1212.5	1205.8	1219.2	1216.5
12.5°	1193.7	1197.7	1193.7	1205.8	1203.1
15°	1173.6	1177.6	1176.3	1189.7	1188.3
17.5°	1149.4	1157.5	1156.2	1168.2	1165.5
20°	1122.6	1130.7	1133.3	1145.4	1146.8
22.5°	1094.5	1102.5	1106.5	1122.6	1121.3
25°	1059.6	1073.0	1077.0	1094.5	1094.5
27.5°	1026.1	1040.8	1048.9	1063.6	1064.9
30°	989.8	1007.3	1018.0	1034.1	1034.1
32.5°	949.6	969.7	984.5	1001.9	1005.9
35°	912.0	933.5	950.9	971.1	976.4
37.5°	871.8	895.9	916.1	938.9	942.9
40°	831.6	855.7	882.5	905.3	910.7
42.5°	787.3	818.2	846.3	871.8	879.9
45°	745.7	777.9	811.5	836.9	847.7
47.5°	701.5	737.7	775.2	803.4	811.5
50°	658.5	696.1	737.7	768.5	777.9
52.5°	612.9	653.2	700.1	732.3	744.4
55°	568.7	612.9	661.2	697.4	708.2
57.5°	525.8	571.4	623.7	659.9	672.0
60°	480.2	528.4	583.4	621.0	635.7
62.5°	437.2	486.9	545.9	583.4	596.9
65°	393.0	445.3	504.3	544.5	558.0
67.5°	348.7	403.7	462.7	507.0	517.7
70°	301.8	359.5	423.8	466.8	480.2
72.5°	258.9	316.5	383.6	427.9	441.3
75°	213.3	276.3	343.4	387.6	403.7
77.5°	174.4	237.4	304.5	351.4	363.5
80°	132.8	198.5	268.2	313.9	327.3
82.5°	96.6	163.6	234.7	280.3	293.7
85°	65.7	132.8	203.9	249.5	262.9
87.5°	40.2	107.3	175.7	221.3	234.7
90°	18.0	89.4	165.2	213.1	227.6
92.5°	29.1	83.4	155.5	203.8	216.5
95°	49.4	78.4	150.4	195.9	209.3
97.5°	76.3	108.7	142.8	187.7	201.6
100°	107.9	162.1	135.4	178.8	192.8
102.5°	143.9	188.8	150.5	169.4	184.0
105°	179.6	218.0	224.7	161.9	175.1
107.5°	216.3	249.6	313.0	262.0	199.7
110°	252.8	281.6	341.4	357.6	287.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	289.1	311.9	369.1	407.7	418.7
115°	323.5	343.0	396.4	434.3	447.2
117.5°	358.6	373.3	421.7	458.5	469.8
120°	389.6	401.4	447.3	482.8	492.2
122.5°	422.5	429.1	472.9	505.3	515.2
125°	450.6	455.1	496.3	525.6	536.1
127.5°	480.0	483.3	519.6	548.1	556.4
130°	507.2	510.5	539.5	567.3	574.2
132.5°	532.0	536.6	558.4	584.7	592.4
135°	558.7	560.7	577.7	603.5	608.5
137.5°	581.3	584.5	595.0	619.3	624.9
140°	602.6	606.0	611.8	634.2	639.7
142.5°	623.6	625.7	627.4	646.5	651.5
145°	642.8	645.5	646.6	658.5	663.9
147.5°	660.2	663.1	664.2	669.3	671.9
150°	677.2	678.9	680.1	681.2	682.2
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)