

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: P1011200

Luminaire Tested: S123DIP-B1000D805UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011200
REPORT IS A COMBINATION OF REPORTS P989263 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D805UB27-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

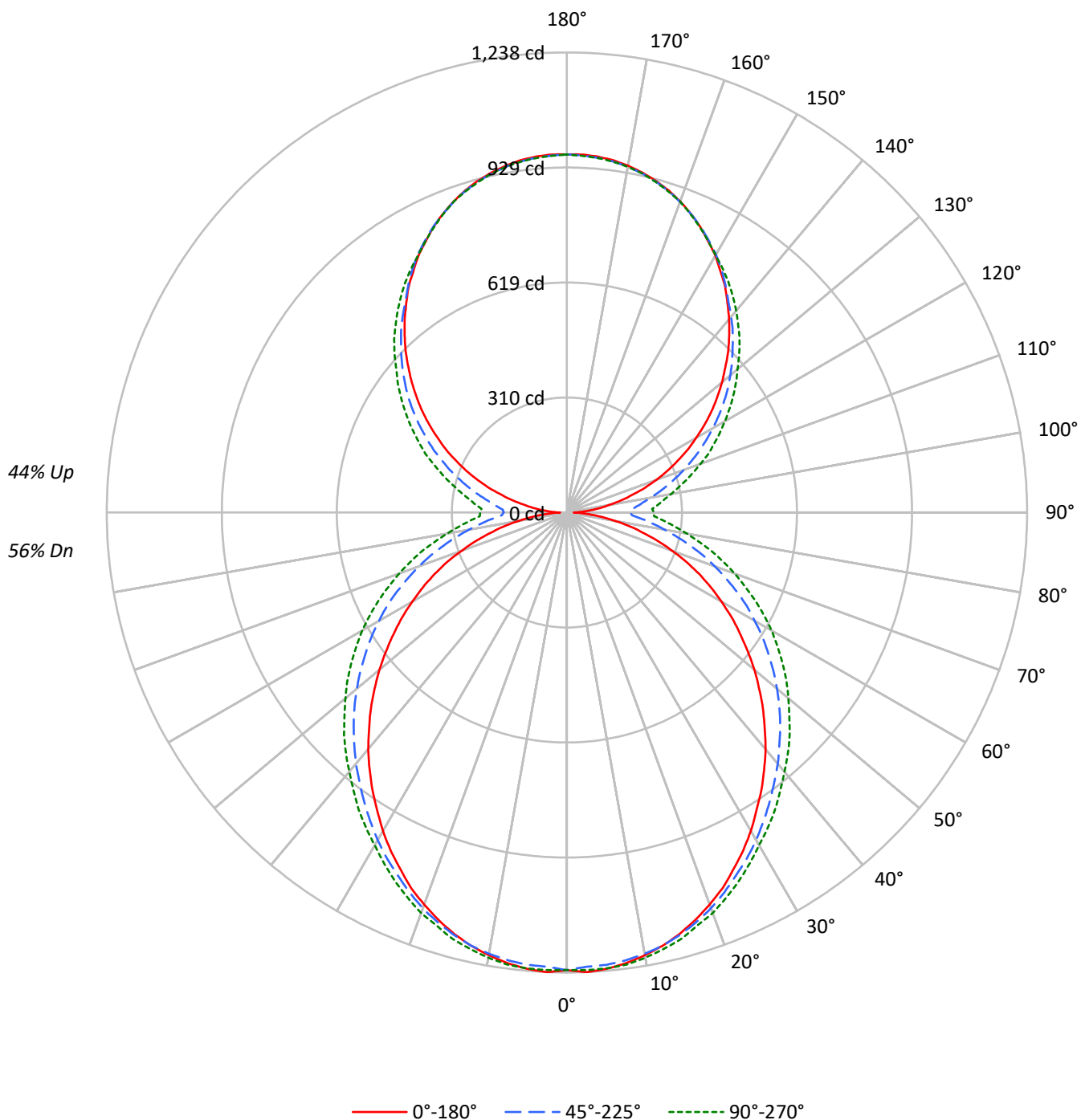
Lumens per Lamp: N/A
Luminaire Lumens: 6810.0 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 67.9
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

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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	109	109	109	109	101	101	101	101	87	87	87		73	73	73		61
1	98	93	89	85	91	86	83	79	74	71	69		63	61	59		52
2	89	81	74	68	82	75	69	64	64	60	56		54	51	48		45
3	81	70	63	56	74	66	59	53	56	51	47		48	44	40		40
4	74	62	54	47	68	58	50	45	50	44	39		42	38	34		35
5	67	55	47	40	62	52	44	38	44	38	34		38	33	29		32
6	62	49	41	35	57	46	39	33	40	34	29		34	29	26		29
7	57	45	36	31	53	42	34	29	36	30	26		31	26	23		26
8	53	40	32	27	49	38	31	26	33	27	23		28	24	20		24
9	50	37	29	24	46	35	28	23	30	24	20		26	21	18		22
10	46	34	26	21	43	32	25	20	28	22	18		24	20	16		21

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	1.7
10°-20°	333.0	4.9
20°-30°	497.9	7.3
30°-40°	594.5	8.7
40°-50°	622.0	9.1
50°-60°	583.7	8.6
60°-70°	487.5	7.2
70°-80°	348.6	5.1
80°-90°	209.5	3.1
90°-100°	192.4	2.8
100°-110°	283.5	4.2
110°-120°	383.6	5.6
120°-130°	457.0	6.7
130°-140°	489.0	7.2
140°-150°	468.1	6.9
150°-160°	391.2	5.7
160°-170°	260.4	3.8
170°-180°	91.2	1.3
0°-30°	947.7	13.9
0°-40°	1542.2	22.6
0°-60°	2747.9	40.4
0°-90°	3793.6	55.7
90°-120°	859.5	12.6
90°-150°	2273.6	33.4
90°-180°	3016.0	44.3
0°-180°	6810.0	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	92	170	218	233	16
95°	60	117	189	233	247	61
105°	181	215	279	317	330	193
115°	328	347	394	426	436	325
125°	475	477	514	540	546	424
135°	614	617	631	652	657	473
145°	742	743	745	755	757	463
155°	848	848	849	852	847	391
165°	924	922	922	926	921	261
175°	961	958	958	963	958	91
180°	964	964	964	964	964	

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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°	18.2	91.5	169.8	218.4	233.3
92.5°	38.8	101.1	172.6	219.2	229.7
95°	59.5	117.1	188.8	233.4	246.8
97.5°	86.8	138.9	206.5	250.5	263.2
100°	115.0	162.5	228.0	269.1	284.1
102.5°	147.7	187.6	253.2	293.0	305.7
105°	181.0	214.7	279.2	316.7	330.4
107.5°	219.1	248.0	306.0	344.5	355.8
110°	254.0	279.7	334.8	372.8	382.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	291.9	311.4	362.4	399.7	411.8
115°	328.4	346.8	393.6	426.5	436.5
117.5°	367.0	378.5	422.6	454.8	463.3
120°	401.3	412.5	452.9	483.1	491.0
122.5°	438.4	444.0	484.1	511.3	518.4
125°	474.8	477.1	514.5	539.7	546.0
127.5°	509.6	512.9	544.9	567.1	573.5
130°	544.5	549.2	573.7	596.2	598.9
132.5°	578.0	584.0	602.6	622.9	628.6
135°	613.6	616.7	630.7	651.8	657.0
137.5°	646.1	648.5	660.2	677.9	682.3
140°	678.8	682.6	687.4	706.8	708.2
142.5°	709.8	712.3	713.8	730.4	733.4
145°	742.4	742.6	744.8	754.8	757.2
147.5°	769.1	772.1	774.4	778.4	779.2
150°	798.6	800.1	801.6	801.6	799.8
152.5°	822.8	825.1	825.8	827.3	823.6
155°	848.5	848.5	849.3	852.3	847.0
157.5°	870.5	869.7	870.5	873.5	869.0
160°	890.9	889.4	889.4	893.2	890.2
162.5°	909.1	906.8	907.6	911.4	906.1
165°	924.2	922.0	922.0	926.5	921.2
167.5°	937.1	934.1	934.8	939.4	934.8
170°	947.7	944.7	944.7	950.0	944.7
172.5°	956.0	953.0	953.0	957.5	952.2
175°	961.3	958.3	958.3	962.8	957.5
177.5°	964.4	961.3	961.3	965.9	960.6
180°	963.6	963.6	963.6	963.6	963.6

(END OF REPORT)