

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: P1011199

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011199
REPORT IS A COMBINATION OF REPORTS P989262 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-D
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

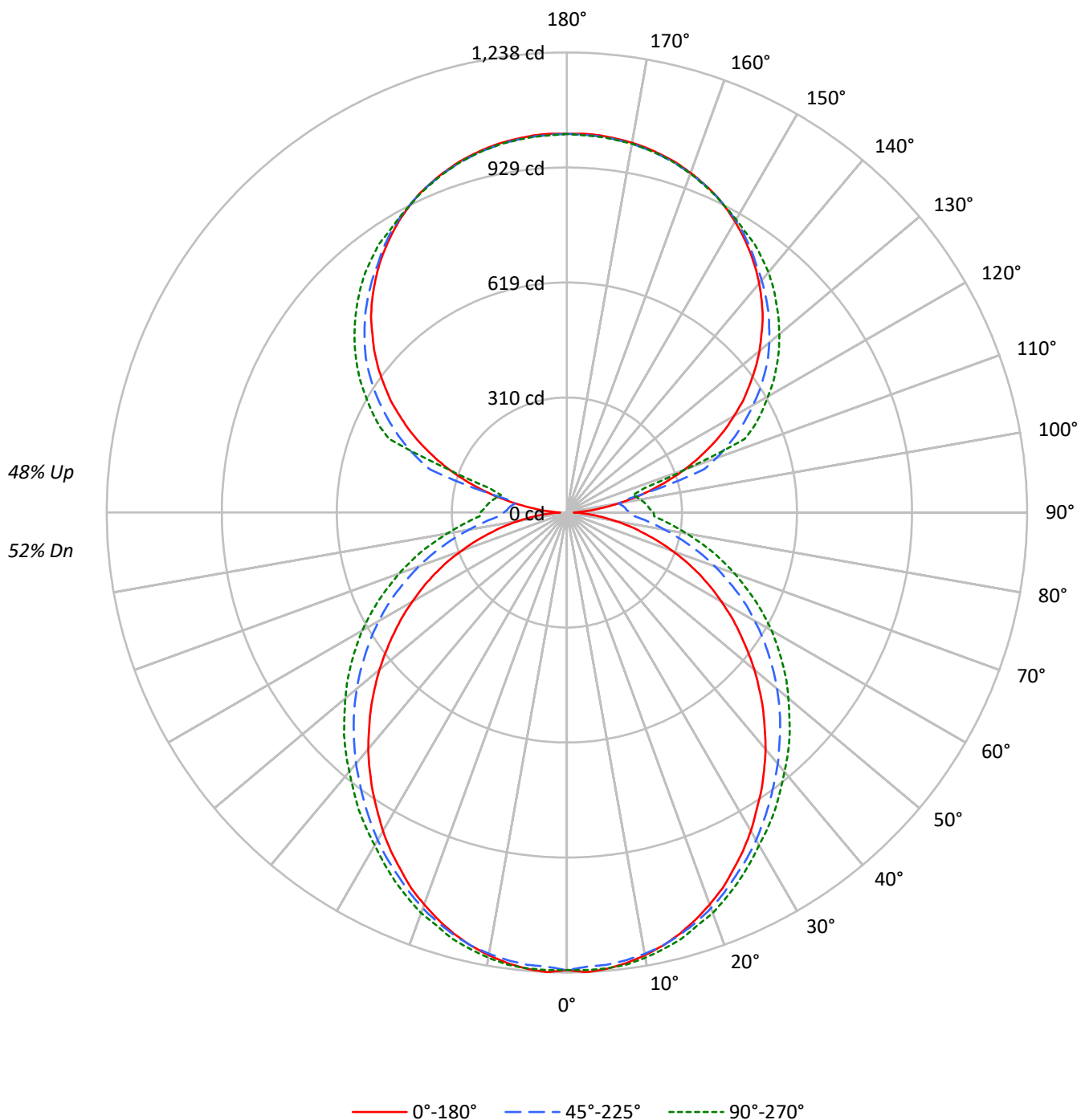
Lumens per Lamp: N/A
Luminaire Lumens: 7246.0 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	108	108	108	108	100	100	100	100	85	85	85		71	71	71		58
1	97	92	88	84	90	85	82	78	73	70	67		61	59	57		50
2	88	80	73	68	81	74	68	63	63	59	55		53	49	47		43
3	80	70	62	56	74	65	58	52	55	50	46		46	42	39		38
4	73	62	53	47	67	57	50	44	49	43	39		41	37	33		34
5	67	55	46	40	62	51	43	38	44	38	33		37	32	28		30
6	62	49	41	35	57	46	38	33	39	33	29		33	28	25		27
7	57	44	36	30	52	41	34	29	35	30	25		30	25	22		25
8	53	40	32	27	49	37	30	25	32	26	22		27	23	19		23
9	49	37	29	24	45	34	27	22	30	24	20		25	21	17		21
10	46	34	26	21	42	31	25	20	27	22	18		23	19	16		20

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	1.6
10°-20°	333.0	4.6
20°-30°	497.9	6.9
30°-40°	594.5	8.2
40°-50°	622.0	8.6
50°-60°	583.7	8.1
60°-70°	487.5	6.7
70°-80°	348.6	4.8
80°-90°	209.5	2.9
90°-100°	166.3	2.3
100°-110°	269.5	3.7
110°-120°	489.6	6.8
120°-130°	576.9	8.0
130°-140°	593.6	8.2
140°-150°	543.2	7.5
150°-160°	435.4	6.0
160°-170°	281.0	3.9
170°-180°	96.8	1.3
0°-30°	947.7	13.1
0°-40°	1542.2	21.3
0°-60°	2747.9	37.9
0°-90°	3793.6	52.4
90°-120°	925.5	12.8
90°-150°	2639.2	36.4
90°-180°	3452.0	47.6
0°-180°	7246.0	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	15
95°	61	82	156	203	217	67
105°	236	277	266	170	184	250
115°	430	450	506	545	559	425
125°	600	606	648	678	689	537
135°	745	748	766	793	797	574
145°	858	862	864	876	881	537
155°	944	942	943	947	942	435
165°	995	993	992	998	993	281
175°	1019	1015	1016	1021	1015	97
180°	1019	1019	1019	1019	1019	

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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°	33.5	86.7	160.5	210.1	222.9
95°	61.0	82.2	156.3	203.2	216.6
97.5°	97.4	124.5	148.9	195.3	209.4
100°	140.0	198.1	141.7	186.6	200.8
102.5°	188.6	236.0	164.6	177.2	192.1
105°	236.3	276.8	266.4	169.9	183.5
107.5°	285.7	320.7	386.9	306.7	219.5
110°	335.0	365.2	427.2	437.1	339.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	383.4	407.5	466.9	507.2	517.8
115°	429.8	450.5	505.6	545.3	559.1
117.5°	476.8	492.7	542.1	580.4	591.9
120°	518.6	532.1	578.6	615.5	624.9
122.5°	562.5	570.4	615.0	648.3	658.5
125°	600.5	606.5	648.4	678.2	689.1
127.5°	639.8	644.6	681.9	710.9	718.8
130°	676.2	680.9	710.7	739.3	745.7
132.5°	709.7	715.7	738.1	765.2	772.4
135°	745.2	748.4	766.2	792.6	797.0
137.5°	775.5	780.2	791.1	816.4	821.6
140°	804.4	808.9	815.3	838.4	843.6
142.5°	832.4	835.6	837.9	857.6	862.0
145°	858.1	862.1	863.7	875.9	881.3
147.5°	881.8	885.6	887.1	892.6	894.2
150°	904.5	906.8	908.3	909.8	910.3
152.5°	925.0	925.7	926.5	929.5	925.7
155°	943.9	942.4	943.1	946.9	942.4
157.5°	959.0	959.0	958.3	962.8	956.8
160°	972.6	971.9	971.1	975.7	970.4
162.5°	985.5	983.2	982.5	987.8	983.2
165°	995.4	993.1	992.3	998.4	993.1
167.5°	1003.7	1000.7	1000.7	1006.7	1000.7
170°	1010.5	1007.5	1007.5	1013.5	1007.5
172.5°	1015.0	1011.3	1012.0	1018.1	1011.3
175°	1018.8	1015.0	1015.8	1021.1	1015.0
177.5°	1020.3	1016.6	1017.3	1023.4	1015.8
180°	1018.8	1018.8	1018.8	1018.8	1018.8

(END OF REPORT)