

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: P1011233

Luminaire Tested: S123DIP-B1000D805UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011233
REPORT IS A COMBINATION OF REPORTS P989314 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D805UB50-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

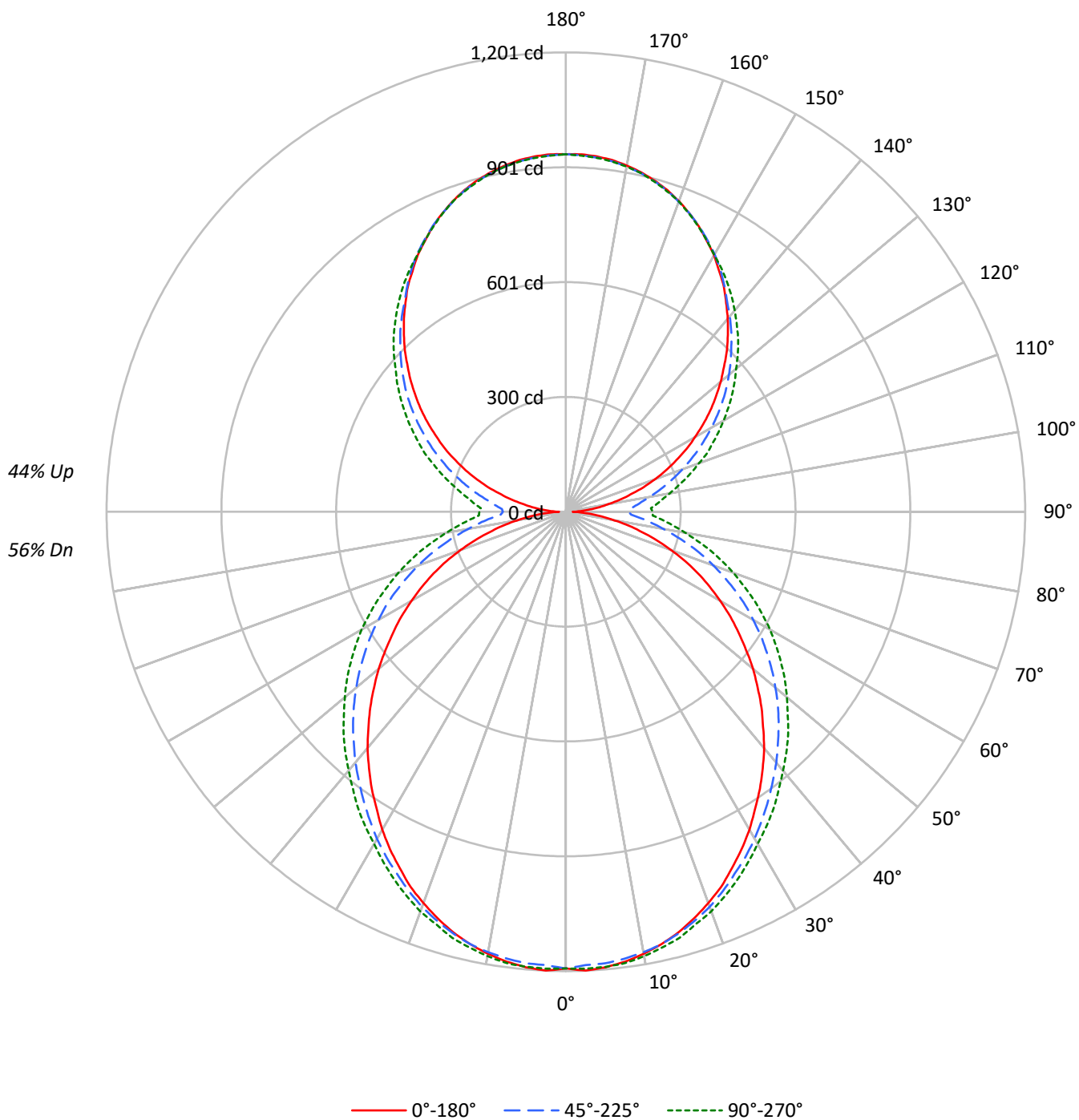
Lumens per Lamp: N/A
Luminaire Lumens: 6605.0 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	30	10
RCR																					
0	109	109	109	109		101	101	101	101		87	87	87		73	73	73		61	61	61
1	98	93	89	85		91	86	83	79		74	71	69		63	61	59		52	51	49
2	89	81	74	68		82	75	69	64		64	60	56		54	51	48		45	43	41
3	81	70	63	56		74	66	59	53		56	51	47		48	44	40		40	37	34
4	74	62	54	47		68	58	50	45		50	44	39		42	38	34		35	32	29
5	67	55	47	40		62	52	44	38		44	38	34		38	33	29		32	28	25
6	62	49	41	35		57	46	39	33		40	34	29		34	29	26		29	25	22
7	57	45	36	31		53	42	34	29		36	30	26		31	26	23		26	22	20
8	53	40	32	27		49	38	31	26		33	27	23		28	24	20		24	20	17
9	50	37	29	24		46	35	28	23		30	24	20		26	21	18		22	18	16
10	46	34	26	21		43	32	25	20		28	22	18		24	20	16		21	17	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12853	12853	12853
5°	12888	12476	12466
10°	12768	12138	12046
15°	12598	11764	11599
20°	12358	11349	11120
25°	12064	10880	10624
30°	11761	10457	10127
35°	11423	10011	9720
40°	11100	9605	9292
45°	10740	9211	8939
50°	10386	8821	8555
55°	9993	8421	8203
60°	9609	8011	7840
65°	9213	7575	7418
70°	8620	7085	6983
75°	7867	6528	6532
80°	6993	5962	6019
85°	6119	5505	5650

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10740 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.3	1.7
10°-20°	322.9	4.9
20°-30°	482.9	7.3
30°-40°	576.5	8.7
40°-50°	603.2	9.1
50°-60°	566.1	8.6
60°-70°	472.8	7.2
70°-80°	338.1	5.1
80°-90°	203.1	3.1
90°-100°	186.6	2.8
100°-110°	275.1	4.2
110°-120°	372.1	5.6
120°-130°	443.3	6.7
130°-140°	474.3	7.2
140°-150°	454.1	6.9
150°-160°	379.5	5.7
160°-170°	252.6	3.8
170°-180°	88.5	1.3
0°-30°	919.1	13.9
0°-40°	1495.6	22.6
0°-60°	2664.9	40.3
0°-90°	3679.0	55.7
90°-120°	833.7	12.6
90°-150°	2205.4	33.4
90°-180°	2926.0	44.3
0°-180°	6605.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1194	1194	1194	1194	1194	
5°	1195	1193	1185	1195	1194	113
15°	1138	1142	1141	1154	1152	321
25°	1028	1041	1044	1061	1061	474
35°	884	905	922	942	947	553
45°	723	754	787	812	822	558
55°	552	594	641	676	687	494
65°	381	432	489	528	541	377
75°	207	268	333	376	392	221
85°	64	129	198	242	255	66
90°	18	89	165	212	226	15
95°	58	114	183	226	239	59
105°	176	208	271	307	320	187
115°	319	336	382	414	423	316
125°	461	463	499	523	530	411
135°	595	598	612	632	637	459
145°	720	720	722	732	734	450
155°	823	823	824	827	822	379
165°	897	894	894	899	894	253
175°	932	930	930	934	929	89
180°	935	935	935	935	935	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1194.1	1194.1	1194.1	1194.1	1194.1
2.5°	1200.6	1196.7	1186.3	1196.7	1195.4
5°	1195.4	1192.8	1185.0	1195.4	1194.1
7.5°	1186.3	1186.3	1178.5	1191.5	1190.2
10°	1173.3	1175.9	1169.4	1182.4	1179.8
12.5°	1157.6	1161.5	1157.6	1169.4	1166.8
15°	1138.1	1142.0	1140.7	1153.7	1152.4
17.5°	1114.7	1122.5	1121.2	1132.9	1130.3
20°	1088.7	1096.5	1099.1	1110.8	1112.1
22.5°	1061.4	1069.2	1073.1	1088.7	1087.4
25°	1027.6	1040.6	1044.5	1061.4	1061.4
27.5°	995.1	1009.4	1017.2	1031.5	1032.8
30°	959.9	976.8	987.3	1002.9	1002.9
32.5°	920.9	940.4	954.7	971.6	975.5
35°	884.5	905.3	922.2	941.7	946.9
37.5°	845.5	868.9	888.4	910.5	914.4
40°	806.5	829.9	855.9	878.0	883.2
42.5°	763.5	793.4	820.8	845.5	853.3
45°	723.2	754.4	786.9	811.7	822.1
47.5°	680.3	715.4	751.8	779.1	786.9
50°	638.7	675.1	715.4	745.3	754.4
52.5°	594.4	633.5	679.0	710.2	721.9
55°	551.5	594.4	641.3	676.4	686.8
57.5°	509.9	554.1	604.8	640.0	651.7
60°	465.7	512.5	565.8	602.2	616.5
62.5°	424.0	472.2	529.4	565.8	578.8
65°	381.1	431.8	489.1	528.1	541.1
67.5°	338.2	391.5	448.8	491.7	502.1
70°	292.7	348.6	411.0	452.7	465.7
72.5°	251.0	307.0	372.0	414.9	427.9
75°	206.8	267.9	333.0	375.9	391.5
77.5°	169.1	230.2	295.3	340.8	352.5
80°	128.8	192.5	260.1	304.4	317.4
82.5°	93.7	158.7	227.6	271.9	284.9
85°	63.7	128.8	197.7	241.9	254.9
87.5°	39.0	104.1	170.4	214.6	227.6
90°	17.6	88.7	164.6	211.8	226.2
92.5°	37.6	97.9	167.4	212.5	222.8
95°	57.6	113.5	183.1	226.4	239.4
97.5°	84.2	134.7	200.3	243.0	255.2
100°	111.6	157.6	221.1	261.0	275.5
102.5°	143.3	181.9	245.6	284.3	296.5
105°	175.6	208.3	270.9	307.3	320.5
107.5°	212.5	240.5	296.9	334.2	345.1
110°	246.4	271.3	324.8	361.6	370.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	283.2	302.1	351.5	387.8	399.5
115°	318.6	336.4	381.7	413.7	423.4
117.5°	356.0	367.2	409.9	441.2	449.4
120°	389.2	400.1	439.4	468.5	476.3
122.5°	425.2	430.8	469.6	496.0	502.9
125°	460.6	462.8	499.1	523.4	529.6
127.5°	494.4	497.5	528.5	550.1	556.3
130°	528.2	532.8	556.6	578.3	581.0
132.5°	560.7	566.5	584.6	604.3	609.7
135°	595.2	598.3	611.8	632.3	637.3
137.5°	626.7	629.1	640.4	657.5	661.8
140°	658.5	662.2	666.8	685.6	686.9
142.5°	688.6	691.0	692.4	708.6	711.4
145°	720.2	720.3	722.5	732.2	734.5
147.5°	746.0	749.0	751.2	755.1	755.9
150°	774.7	776.1	777.6	777.6	775.8
152.5°	798.2	800.4	801.1	802.6	798.9
155°	823.1	823.1	823.9	826.8	821.7
157.5°	844.4	843.7	844.4	847.4	843.0
160°	864.3	862.8	862.8	866.5	863.5
162.5°	881.9	879.7	880.4	884.1	878.9
165°	896.6	894.4	894.4	898.8	893.6
167.5°	909.1	906.1	906.8	911.3	906.8
170°	919.3	916.4	916.4	921.5	916.4
172.5°	927.4	924.5	924.5	928.9	923.7
175°	932.5	929.6	929.6	934.0	928.9
177.5°	935.5	932.5	932.5	937.0	931.8
180°	934.8	934.8	934.8	934.8	934.8

(END OF REPORT)