

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: P1011208

Luminaire Tested: S123DIP-B1000D805UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011208
REPORT IS A COMBINATION OF REPORTS P989286 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D805UB30-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

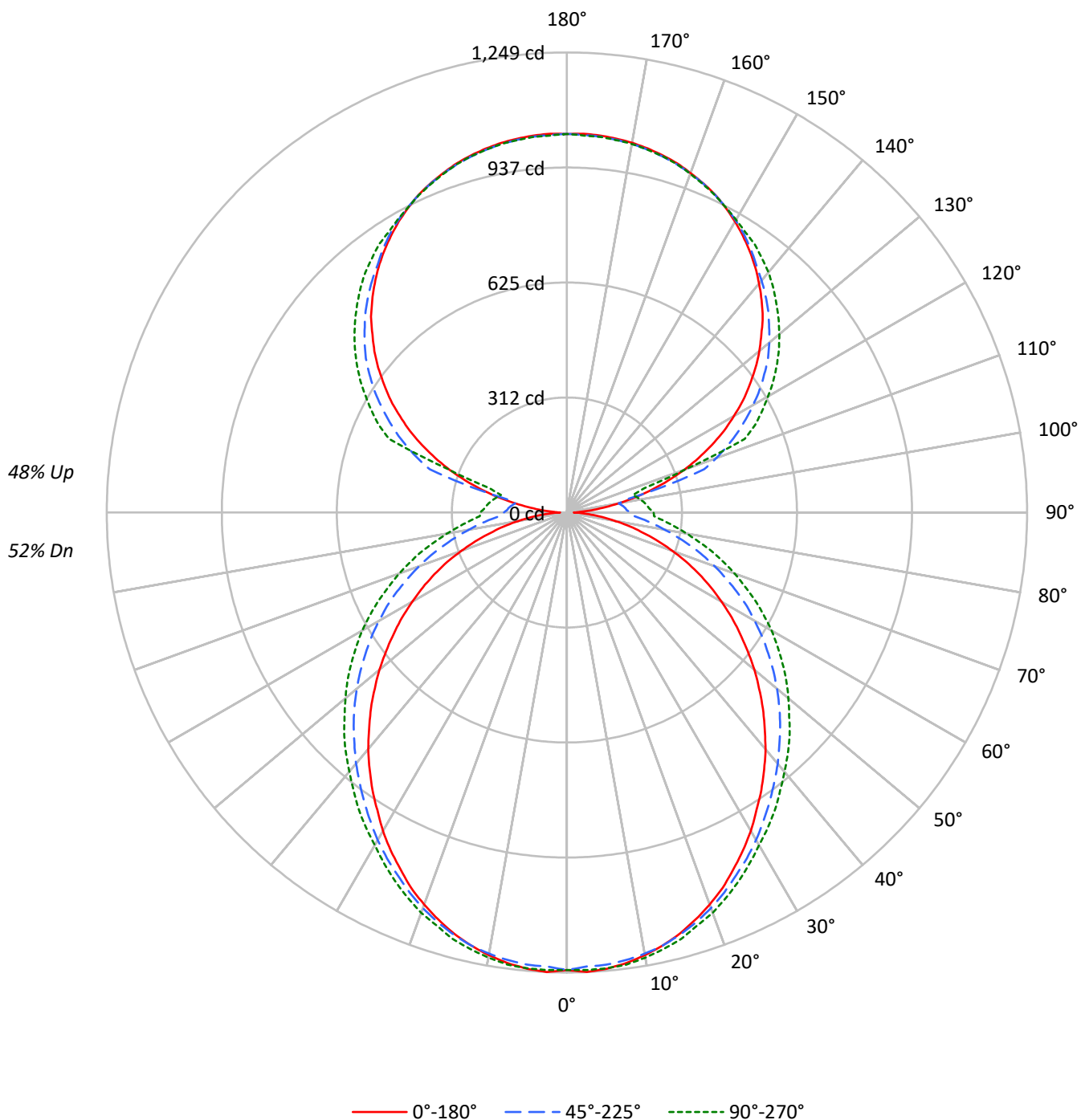
Lumens per Lamp: N/A
Luminaire Lumens: 7309.0 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58
1	97	92	88	84	90	85	82	78	73	70	67	61	59	57	50	48	47
2	88	80	73	68	81	74	68	63	63	59	55	53	49	47	43	41	39
3	80	70	62	56	74	65	58	52	55	50	46	46	42	39	38	35	33
4	73	62	53	47	67	57	50	44	49	43	39	41	37	33	34	30	28
5	67	55	46	40	62	51	43	38	44	38	33	37	32	28	30	27	24
6	62	49	41	35	57	46	38	33	39	33	29	33	28	25	27	24	21
7	57	44	36	30	52	41	34	29	35	30	25	30	25	22	25	21	19
8	53	40	32	27	49	37	30	25	32	26	22	27	23	19	23	19	17
9	49	37	29	24	45	34	27	22	30	24	20	25	21	17	21	18	15
10	46	34	26	21	42	31	25	20	27	22	18	23	19	16	20	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13369	13369	13369
5°	13405	12976	12966
10°	13279	12625	12529
15°	13104	12237	12065
20°	12854	11804	11566
25°	12548	11317	11051
30°	12233	10876	10532
35°	11881	10413	10110
40°	11544	9989	9664
45°	11171	9580	9297
50°	10802	9175	8898
55°	10393	8758	8531
60°	9993	8332	8156
65°	9582	7879	7716
70°	8964	7369	7261
75°	8182	6788	6793
80°	7269	6203	6260
85°	6368	5725	5878

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11171 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	1.6
10°-20°	335.9	4.6
20°-30°	502.3	6.9
30°-40°	599.7	8.2
40°-50°	627.4	8.6
50°-60°	588.8	8.1
60°-70°	491.8	6.7
70°-80°	351.7	4.8
80°-90°	211.3	2.9
90°-100°	167.7	2.3
100°-110°	271.9	3.7
110°-120°	493.9	6.8
120°-130°	581.9	8.0
130°-140°	598.8	8.2
140°-150°	548.0	7.5
150°-160°	439.2	6.0
160°-170°	283.4	3.9
170°-180°	97.7	1.3
0°-30°	955.9	13.1
0°-40°	1555.6	21.3
0°-60°	2771.8	37.9
0°-90°	3826.6	52.4
90°-120°	933.5	12.8
90°-150°	2662.1	36.4
90°-180°	3482.0	47.6
0°-180°	7309.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1242	1242	1242	1242	1242	
5°	1243	1241	1232	1243	1242	118
15°	1184	1188	1186	1200	1199	333
25°	1069	1082	1086	1104	1104	493
35°	920	942	959	980	985	575
45°	752	785	818	844	855	580
55°	574	618	667	704	714	514
65°	396	449	509	549	563	392
75°	215	279	346	391	407	230
85°	66	134	206	252	265	68
90°	18	92	171	220	235	15
95°	62	83	158	205	218	67
105°	238	279	269	171	185	252
115°	434	454	510	550	564	429
125°	606	612	654	684	695	542
135°	752	755	773	800	804	579
145°	866	870	871	884	889	542
155°	952	951	951	955	951	439
165°	1004	1002	1001	1007	1002	284
175°	1028	1024	1025	1030	1024	98
180°	1028	1028	1028	1028	1028	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1242.0	1242.0	1242.0	1242.0	1242.0
2.5°	1248.7	1244.7	1233.9	1244.7	1243.3
5°	1243.3	1240.6	1232.5	1243.3	1242.0
7.5°	1233.9	1233.9	1225.7	1239.3	1237.9
10°	1220.3	1223.0	1216.3	1229.8	1227.1
12.5°	1204.1	1208.1	1204.1	1216.3	1213.6
15°	1183.8	1187.9	1186.5	1200.0	1198.7
17.5°	1159.4	1167.6	1166.2	1178.4	1175.7
20°	1132.4	1140.5	1143.2	1155.4	1156.7
22.5°	1104.0	1112.1	1116.2	1132.4	1131.0
25°	1068.8	1082.3	1086.4	1104.0	1104.0
27.5°	1035.0	1049.9	1058.0	1072.9	1074.2
30°	998.4	1016.0	1026.9	1043.1	1043.1
32.5°	957.9	978.2	993.0	1010.6	1014.7
35°	920.0	941.6	959.2	979.5	984.9
37.5°	879.4	903.7	924.0	947.0	951.1
40°	838.8	863.2	890.2	913.2	918.6
42.5°	794.2	825.3	853.7	879.4	887.5
45°	752.2	784.7	818.5	844.2	855.0
47.5°	707.6	744.1	782.0	810.4	818.5
50°	664.3	702.2	744.1	775.2	784.7
52.5°	618.3	658.9	706.2	738.7	750.9
55°	573.6	618.3	667.0	703.5	714.3
57.5°	530.3	576.3	629.1	665.6	677.8
60°	484.3	533.0	588.5	626.4	641.3
62.5°	441.0	491.1	550.6	588.5	602.0
65°	396.4	449.2	508.7	549.3	562.8
67.5°	351.8	407.2	466.8	511.4	522.2
70°	304.4	362.6	427.5	470.8	484.3
72.5°	261.1	319.3	386.9	431.6	445.1
75°	215.1	278.7	346.3	391.0	407.2
77.5°	175.9	239.5	307.1	354.5	366.6
80°	133.9	200.2	270.6	316.6	330.1
82.5°	97.4	165.1	236.8	282.8	296.3
85°	66.3	133.9	205.6	251.6	265.2
87.5°	40.6	108.2	177.2	223.2	236.8
90°	18.4	92.3	171.2	220.3	235.3
92.5°	33.8	87.4	162.0	211.9	224.9
95°	61.5	82.9	157.6	204.9	218.4
97.5°	98.2	125.6	150.2	196.9	211.2
100°	141.2	199.8	142.9	188.2	202.6
102.5°	190.2	238.0	166.1	178.8	193.8
105°	238.3	279.2	268.7	171.4	185.1
107.5°	288.2	323.4	390.4	309.3	221.5
110°	337.9	368.4	430.9	440.9	342.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	386.8	411.1	470.9	511.6	522.3
115°	433.6	454.4	509.9	550.1	563.9
117.5°	480.9	497.1	546.9	585.5	597.1
120°	523.1	536.7	583.6	620.8	630.3
122.5°	567.3	575.4	620.4	654.0	664.2
125°	605.7	611.8	654.1	684.0	695.1
127.5°	645.4	650.1	687.8	717.2	725.1
130°	682.1	686.8	717.0	745.7	752.3
132.5°	715.8	721.9	744.5	772.0	779.1
135°	751.7	755.0	772.8	799.5	804.0
137.5°	782.2	787.0	798.0	823.5	828.7
140°	811.5	816.1	822.3	845.7	851.0
142.5°	839.7	842.9	845.2	865.1	869.6
145°	865.7	869.6	871.2	883.5	888.9
147.5°	889.5	893.3	894.8	900.5	902.0
150°	912.4	914.7	916.2	917.7	918.1
152.5°	933.0	933.8	934.5	937.6	933.8
155°	952.1	950.6	951.3	955.1	950.6
157.5°	967.4	967.4	966.6	971.2	965.1
160°	981.1	980.3	979.6	984.2	978.8
162.5°	994.1	991.8	991.0	996.4	991.8
165°	1004.0	1001.7	1001.0	1007.1	1001.7
167.5°	1012.4	1009.3	1009.3	1015.5	1009.3
170°	1019.3	1016.2	1016.2	1022.3	1016.2
172.5°	1023.9	1020.0	1020.8	1026.9	1020.0
175°	1027.7	1023.9	1024.6	1030.0	1023.9
177.5°	1029.2	1025.4	1026.1	1032.3	1024.6
180°	1027.7	1027.7	1027.7	1027.7	1027.7

(END OF REPORT)