

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: P1011217

Luminaire Tested: S123DIP-B1000D805UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011217
REPORT IS A COMBINATION OF REPORTS P989297 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D805UB35-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

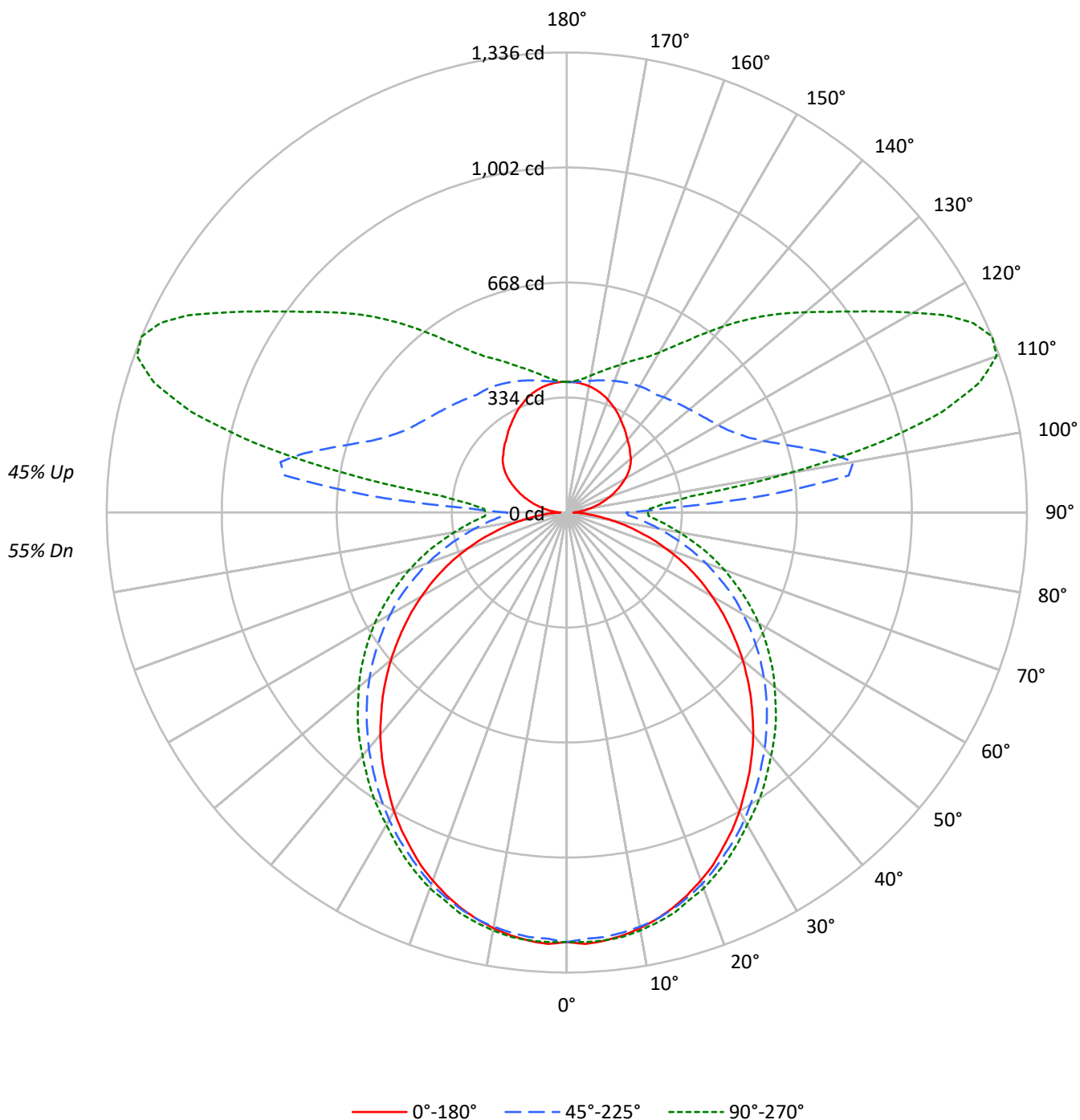
Lumens per Lamp: N/A
Luminaire Lumens: 7050.6 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	86	86	86		73	73	73		60
1	98	93	88	84	90	86	82	79	74	71	68		62	60	58		51
2	88	80	74	68	82	75	69	64	64	59	56		54	51	48		45
3	80	70	62	56	74	65	58	53	56	51	46		47	43	40		39
4	73	62	54	47	68	58	50	44	49	44	39		42	37	34		35
5	67	55	47	40	62	51	44	38	44	38	34		37	33	29		31
6	62	49	41	35	57	46	38	33	40	34	29		34	29	25		28
7	57	45	36	30	53	42	34	29	36	30	26		31	26	22		26
8	53	40	32	27	49	38	30	25	33	27	23		28	23	20		24
9	49	37	29	24	46	34	27	23	30	24	20		26	21	18		22
10	46	34	26	21	43	32	25	20	28	22	18		24	19	16		20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13426	13426	13426
5°	13463	13032	13021
10°	13337	12679	12583
15°	13160	12289	12116
20°	12910	11855	11616
25°	12602	11366	11098
30°	12287	10923	10578
35°	11931	10459	10154
40°	11594	10033	9706
45°	11220	9621	9337
50°	10848	9214	8937
55°	10439	8796	8568
60°	10037	8369	8190
65°	9624	7913	7749
70°	9003	7402	7293
75°	8217	6818	6823
80°	7302	6228	6287
85°	6397	5750	5902

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11220 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	1.7
10°-20°	337.3	4.8
20°-30°	504.4	7.2
30°-40°	602.3	8.5
40°-50°	630.1	8.9
50°-60°	591.3	8.4
60°-70°	493.9	7.0
70°-80°	353.2	5.0
80°-90°	212.3	3.0
90°-100°	347.3	4.9
100°-110°	698.9	9.9
110°-120°	651.6	9.2
120°-130°	504.2	7.2
130°-140°	385.4	5.5
140°-150°	278.6	4.0
150°-160°	192.0	2.7
160°-170°	112.8	1.6
170°-180°	36.7	0.5
0°-30°	960.1	13.6
0°-40°	1562.3	22.2
0°-60°	2783.8	39.5
0°-90°	3843.1	54.5
90°-120°	1697.8	24.1
90°-150°	2866.1	40.7
90°-180°	3208.0	45.5
0°-180°	7050.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1247	1247	1247	1247	1247	
5°	1249	1246	1238	1249	1247	118
15°	1189	1193	1192	1205	1204	335
25°	1073	1087	1091	1109	1109	495
35°	924	946	963	984	989	578
45°	756	788	822	848	859	583
55°	576	621	670	706	717	516
65°	398	451	511	552	565	394
75°	216	280	348	393	409	231
85°	67	134	206	253	266	69
90°	19	93	173	221	236	15
95°	41	153	589	309	279	39
105°	100	175	718	1218	1128	105
115°	164	219	544	1139	1302	163
125°	223	262	484	870	1017	198
135°	259	307	450	698	806	200
145°	294	335	429	550	609	184
155°	332	358	415	472	492	153
165°	363	373	397	421	429	102
175°	378	378	381	386	386	36
180°	379	379	379	379	379	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1247.3	1247.3	1247.3	1247.3	1247.3
2.5°	1254.1	1250.0	1239.2	1250.0	1248.7
5°	1248.7	1246.0	1237.8	1248.7	1247.3
7.5°	1239.2	1239.2	1231.0	1244.6	1243.3
10°	1225.6	1228.3	1221.5	1235.1	1232.4
12.5°	1209.3	1213.4	1209.3	1221.5	1218.8
15°	1188.9	1193.0	1191.6	1205.2	1203.8
17.5°	1164.4	1172.6	1171.2	1183.5	1180.7
20°	1137.3	1145.4	1148.1	1160.4	1161.7
22.5°	1108.7	1116.9	1121.0	1137.3	1135.9
25°	1073.4	1087.0	1091.1	1108.7	1108.7
27.5°	1039.4	1054.4	1062.5	1077.5	1078.8
30°	1002.8	1020.4	1031.3	1047.6	1047.6
32.5°	962.0	982.4	997.3	1015.0	1019.1
35°	923.9	945.7	963.4	983.7	989.2
37.5°	883.2	907.6	928.0	951.1	955.2
40°	842.4	866.9	894.1	917.2	922.6
42.5°	797.6	828.8	857.4	883.2	891.3
45°	755.5	788.1	822.0	847.9	858.7
47.5°	710.6	747.3	785.4	813.9	822.0
50°	667.1	705.2	747.3	778.6	788.1
52.5°	620.9	661.7	709.3	741.9	754.1
55°	576.1	620.9	669.9	706.5	717.4
57.5°	532.6	578.8	631.8	668.5	680.7
60°	486.4	535.3	591.1	629.1	644.0
62.5°	443.0	493.2	553.0	591.1	604.6
65°	398.1	451.1	510.9	551.7	565.2
67.5°	353.3	409.0	468.8	513.6	524.5
70°	305.7	364.1	429.4	472.8	486.4
72.5°	262.2	320.7	388.6	433.4	447.0
75°	216.0	279.9	347.8	392.7	409.0
77.5°	176.6	240.5	308.4	356.0	368.2
80°	134.5	201.1	271.7	317.9	331.5
82.5°	97.8	165.8	237.8	284.0	297.6
85°	66.6	134.5	206.5	252.7	266.3
87.5°	40.8	108.7	178.0	224.2	237.8
90°	19.2	93.4	172.7	221.2	235.5
92.5°	27.8	120.7	285.4	236.2	240.3
95°	41.0	152.6	589.3	309.3	279.2
97.5°	55.0	159.5	825.9	500.7	363.2
100°	69.0	162.6	844.5	855.6	652.1
102.5°	83.8	167.4	786.5	1082.6	923.3
105°	99.9	175.0	718.5	1218.4	1127.8
107.5°	115.3	184.8	657.5	1272.0	1257.8
110°	132.4	195.2	607.0	1265.9	1328.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	149.3	206.2	569.6	1213.0	1336.0
115°	164.0	219.0	543.7	1138.8	1302.0
117.5°	180.1	229.8	522.5	1060.2	1240.1
120°	195.6	240.4	507.3	985.2	1160.0
122.5°	210.2	251.8	495.1	924.6	1086.0
125°	222.7	262.2	483.7	869.6	1017.2
127.5°	233.4	274.6	474.6	823.2	956.9
130°	243.4	286.8	465.5	779.7	904.5
132.5°	249.7	298.0	458.0	738.6	855.5
135°	258.9	307.0	450.4	697.6	806.1
137.5°	267.3	315.5	443.5	657.3	755.7
140°	274.4	323.1	437.2	619.0	704.4
142.5°	283.6	328.6	430.3	582.2	654.9
145°	293.6	334.8	428.7	549.7	609.1
147.5°	302.2	341.3	426.4	523.0	570.1
150°	312.1	346.7	423.4	501.2	535.7
152.5°	322.1	352.4	419.5	485.8	510.0
155°	332.1	358.2	414.9	471.7	491.6
157.5°	339.8	363.2	411.1	457.8	474.0
160°	349.0	367.4	406.5	445.2	457.1
162.5°	355.9	370.4	401.9	433.3	441.8
165°	362.8	373.1	397.3	421.4	428.7
167.5°	368.1	375.4	392.7	411.0	415.7
170°	372.7	376.6	388.1	401.8	404.2
172.5°	375.8	377.7	384.2	393.8	393.4
175°	378.1	378.5	381.2	386.5	385.8
177.5°	379.6	378.9	378.9	381.9	380.4
180°	378.9	378.9	378.9	378.9	378.9

(END OF REPORT)