

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: P1011469

Luminaire Tested: S123DIP-B340D1025UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011469
REPORT IS A COMBINATION OF REPORTS P989646 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D1025UB30-4F0-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

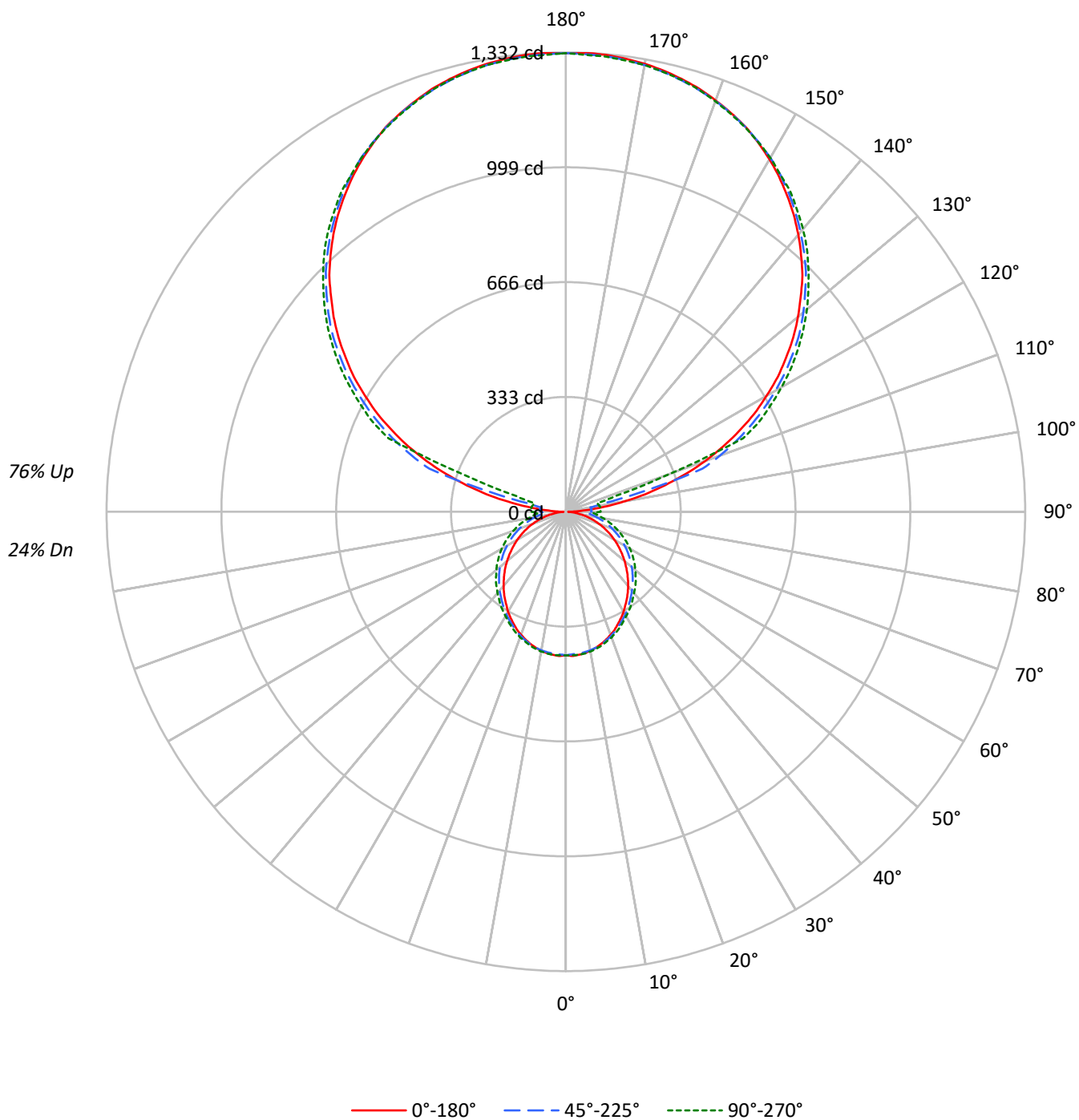
Lumens per Lamp: N/A
Luminaire Lumens: 5456.0 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
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	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32
1	91	87	83	80	81	77	74	71	59	57	55	43	41	40	27	27	26
2	83	76	70	64	73	67	62	58	52	48	45	37	35	33	24	22	21
3	75	66	59	53	67	59	53	48	45	41	38	33	30	28	21	19	18
4	69	58	51	45	61	52	45	40	40	35	32	29	26	23	18	17	15
5	63	52	44	38	56	46	39	34	36	31	27	26	23	20	17	15	13
6	58	46	38	33	51	41	35	30	32	27	23	23	20	17	15	13	12
7	53	41	34	28	47	37	30	26	29	24	20	21	18	15	14	12	10
8	49	37	30	25	44	34	27	23	26	21	18	19	16	13	12	10	9
9	46	34	27	22	41	31	24	20	24	19	16	17	14	12	11	10	8
10	43	31	24	19	38	28	22	18	22	17	14	16	13	11	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4481	4481	4481
5°	4493	4349	4346
10°	4451	4232	4199
15°	4392	4102	4044
20°	4308	3957	3877
25°	4205	3793	3704
30°	4101	3646	3530
35°	3981	3490	3389
40°	3869	3349	3239
45°	3744	3211	3116
50°	3620	3075	2982
55°	3484	2936	2859
60°	3349	2793	2733
65°	3213	2641	2586
70°	3004	2470	2433
75°	2743	2276	2277
80°	2438	2079	2098
85°	2132	1919	1970

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3744 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.5	0.7
10°-20°	112.6	2.1
20°-30°	168.3	3.1
30°-40°	201.0	3.7
40°-50°	210.3	3.9
50°-60°	197.3	3.6
60°-70°	164.8	3.0
70°-80°	117.9	2.2
80°-90°	72.8	1.3
90°-100°	91.0	1.7
100°-110°	259.1	4.7
110°-120°	577.3	10.6
120°-130°	717.7	13.2
130°-140°	759.1	13.9
140°-150°	705.8	12.9
150°-160°	568.4	10.4
160°-170°	366.8	6.7
170°-180°	126.4	2.3
0°-30°	320.4	5.9
0°-40°	521.4	9.6
0°-60°	929.0	17.0
0°-90°	1284.5	23.5
90°-120°	927.3	17.0
90°-150°	3109.9	57.0
90°-180°	4171.0	76.4
0°-180°	5456.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	416	416	416	416	416	
5°	417	416	413	417	416	40
15°	397	398	398	402	402	112
25°	358	363	364	370	370	165
35°	308	316	322	328	330	193
45°	252	263	274	283	287	194
55°	192	207	224	236	239	172
65°	133	150	170	184	189	131
75°	72	93	116	131	136	77
85°	22	45	69	84	89	23
90°	7	39	75	94	101	8
95°	65	42	76	96	101	76
105°	298	320	250	88	94	316
115°	555	566	591	612	620	548
125°	780	788	805	816	822	697
135°	970	976	985	996	995	747
145°	1119	1125	1127	1133	1135	700
155°	1232	1230	1231	1236	1230	568
165°	1299	1296	1295	1303	1296	367
175°	1330	1325	1326	1333	1325	127
180°	1330	1330	1330	1330	1330	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	416.3	416.3	416.3	416.3	416.3
2.5°	418.5	417.2	413.6	417.2	416.7
5°	416.7	415.8	413.1	416.7	416.3
7.5°	413.6	413.6	410.8	415.4	414.9
10°	409.0	409.9	407.7	412.2	411.3
12.5°	403.6	404.9	403.6	407.7	406.7
15°	396.8	398.1	397.7	402.2	401.8
17.5°	388.6	391.3	390.9	395.0	394.1
20°	379.5	382.3	383.2	387.3	387.7
22.5°	370.0	372.7	374.1	379.5	379.1
25°	358.2	362.8	364.1	370.0	370.0
27.5°	346.9	351.9	354.6	359.6	360.0
30°	334.7	340.5	344.2	349.6	349.6
32.5°	321.0	327.8	332.8	338.7	340.1
35°	308.3	315.6	321.5	328.3	330.1
37.5°	294.7	302.9	309.7	317.4	318.8
40°	281.1	289.3	298.4	306.1	307.9
42.5°	266.2	276.6	286.1	294.7	297.5
45°	252.1	263.0	274.3	283.0	286.6
47.5°	237.2	249.4	262.1	271.6	274.3
50°	222.6	235.3	249.4	259.8	263.0
52.5°	207.2	220.8	236.7	247.6	251.7
55°	192.3	207.2	223.6	235.8	239.4
57.5°	177.8	193.2	210.9	223.1	227.2
60°	162.3	178.7	197.3	209.9	214.9
62.5°	147.8	164.6	184.6	197.3	201.8
65°	132.9	150.5	170.5	184.1	188.6
67.5°	117.9	136.5	156.4	171.4	175.0
70°	102.0	121.5	143.3	157.8	162.3
72.5°	87.5	107.0	129.7	144.7	149.2
75°	72.1	93.4	116.1	131.0	136.5
77.5°	58.9	80.3	102.9	118.8	122.9
80°	44.9	67.1	90.7	106.1	110.6
82.5°	32.6	55.3	79.4	94.8	99.3
85°	22.2	44.9	68.9	84.3	88.9
87.5°	13.6	36.3	59.4	74.8	79.4
90°	6.9	39.0	74.9	94.4	100.8
92.5°	28.1	41.7	73.3	95.2	100.3
95°	65.3	42.5	75.5	96.4	101.0
97.5°	114.2	102.9	73.8	95.3	100.8
100°	171.1	205.3	72.1	93.1	98.6
102.5°	235.8	261.3	109.8	89.9	96.5
105°	298.0	319.8	250.4	88.2	94.3
107.5°	363.8	382.2	415.6	275.7	150.4
110°	429.5	445.6	474.6	453.8	316.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	492.8	506.1	534.2	554.3	556.5
115°	554.6	565.9	591.1	611.9	619.5
117.5°	615.9	626.4	646.7	665.5	670.1
120°	671.7	682.9	700.8	719.2	722.3
122.5°	729.0	736.8	754.9	769.8	773.9
125°	780.0	787.9	804.9	816.4	821.6
127.5°	831.4	838.8	855.0	867.1	868.3
130°	878.8	886.2	899.2	911.8	912.5
132.5°	923.7	931.6	941.4	953.6	953.7
135°	970.2	975.7	984.6	995.7	995.1
137.5°	1009.7	1017.2	1022.3	1034.5	1034.8
140°	1048.8	1054.7	1059.0	1069.8	1070.1
142.5°	1085.4	1090.8	1093.8	1102.6	1102.0
145°	1119.0	1125.4	1127.4	1132.9	1134.7
147.5°	1151.1	1156.0	1158.0	1161.4	1158.2
150°	1180.7	1183.7	1185.7	1187.6	1185.6
152.5°	1207.4	1208.4	1209.4	1213.3	1208.4
155°	1232.1	1230.1	1231.1	1236.0	1230.1
157.5°	1251.9	1251.9	1250.9	1256.8	1248.9
160°	1269.6	1268.7	1267.7	1273.6	1266.7
162.5°	1286.4	1283.5	1282.5	1289.4	1283.5
165°	1299.3	1296.3	1295.3	1303.2	1296.3
167.5°	1310.1	1306.2	1306.2	1314.1	1306.2
170°	1319.0	1315.1	1315.1	1323.0	1315.1
172.5°	1325.0	1320.0	1321.0	1328.9	1320.0
175°	1329.9	1325.0	1326.0	1332.9	1325.0
177.5°	1331.9	1326.9	1327.9	1335.8	1326.0
180°	1329.9	1329.9	1329.9	1329.9	1329.9

(END OF REPORT)