

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: P1011051

Luminaire Tested: S123DIP-B1000D1025UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011051
REPORT IS A COMBINATION OF REPORTS P989066 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D1025UB40-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

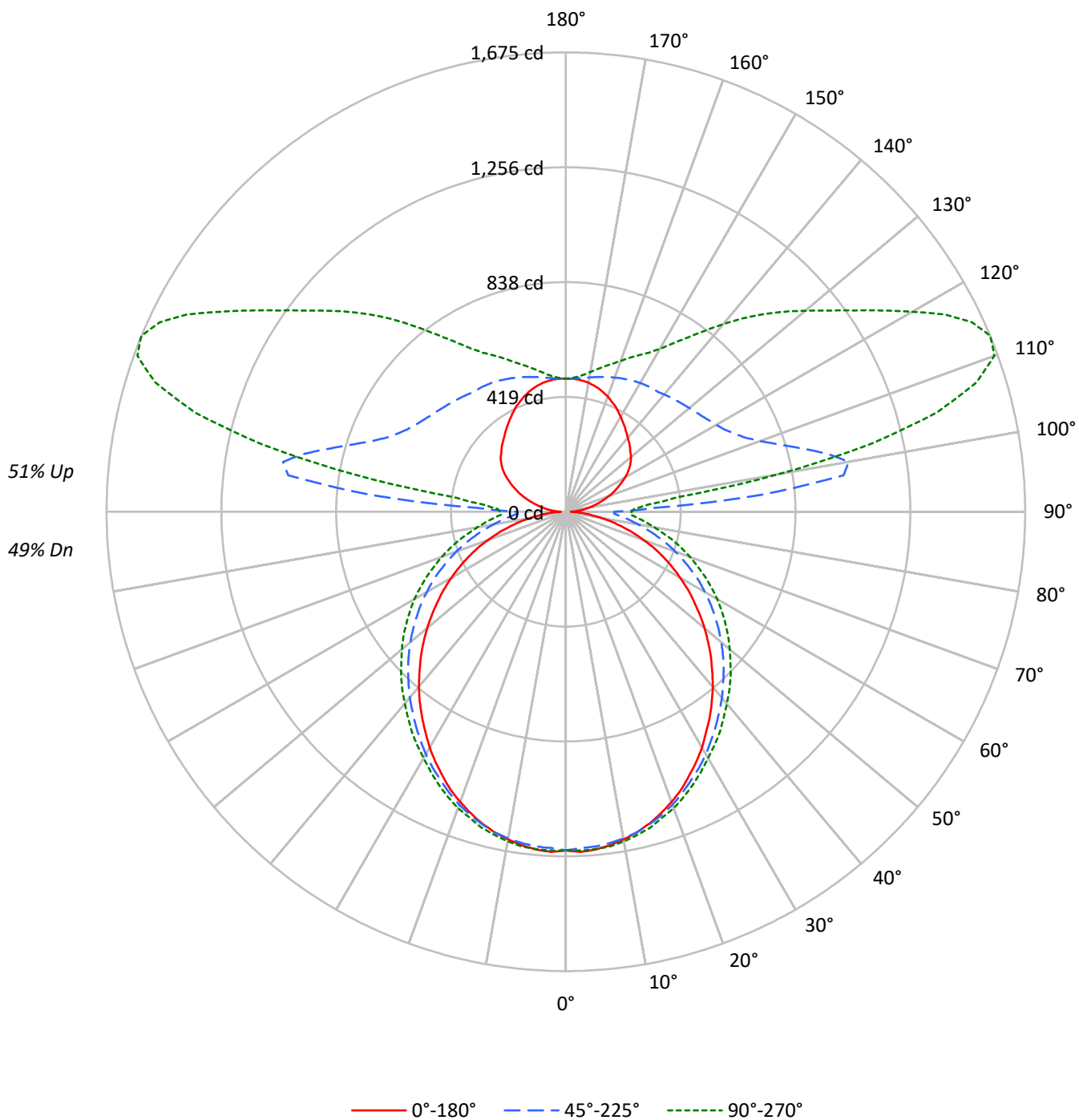
Lumens per Lamp: N/A
Luminaire Lumens: 7812.5 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 75.3
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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55
1	96	92	87	84	89	84	81	77	71	68	66	58	56	55	47	46	44
2	87	79	73	67	80	73	68	63	62	57	54	51	48	45	41	39	37
3	79	70	62	56	73	64	57	52	54	49	45	44	41	38	36	33	31
4	73	61	53	47	66	57	49	44	48	42	38	39	35	32	32	29	26
5	67	54	46	40	61	50	43	37	43	37	32	35	31	27	28	25	23
6	61	49	40	34	56	45	38	32	38	32	28	32	27	24	26	22	20
7	57	44	36	30	52	41	33	28	35	29	25	29	24	21	23	20	18
8	52	40	32	26	48	37	30	25	32	26	22	26	22	19	22	18	16
9	49	36	29	24	45	34	27	22	29	23	19	24	20	17	20	17	14
10	46	33	26	21	42	31	24	20	27	21	17	22	18	15	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13291	13291	13291
5°	13328	12901	12891
10°	13203	12552	12456
15°	13029	12166	11995
20°	12781	11736	11500
25°	12476	11251	10987
30°	12163	10814	10472
35°	11813	10353	10053
40°	11478	9932	9608
45°	11107	9525	9243
50°	10741	9122	8847
55°	10333	8708	8482
60°	9937	8284	8108
65°	9527	7834	7672
70°	8914	7328	7221
75°	8137	6751	6755
80°	7231	6166	6224
85°	6330	5695	5843

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11107 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	1.5
10°-20°	333.9	4.3
20°-30°	499.4	6.4
30°-40°	596.2	7.6
40°-50°	623.8	8.0
50°-60°	585.4	7.5
60°-70°	489.0	6.3
70°-80°	349.6	4.5
80°-90°	210.8	2.7
90°-100°	406.6	5.2
100°-110°	867.1	11.1
110°-120°	816.0	10.4
120°-130°	635.2	8.1
130°-140°	489.0	6.3
140°-150°	356.0	4.6
150°-160°	246.0	3.1
160°-170°	144.5	1.8
170°-180°	47.0	0.6
0°-30°	950.4	12.2
0°-40°	1546.6	19.8
0°-60°	2755.9	35.3
0°-90°	3805.2	48.7
90°-120°	2089.6	26.7
90°-150°	3569.8	45.7
90°-180°	4007.0	51.3
0°-180°	7812.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1235	1235	1235	1235	1235	
5°	1236	1234	1225	1236	1235	117
15°	1177	1181	1180	1193	1192	332
25°	1063	1076	1080	1098	1098	490
35°	915	936	954	974	979	572
45°	748	780	814	839	850	577
55°	570	615	663	700	710	511
65°	394	447	506	546	560	390
75°	214	277	344	389	405	228
85°	66	133	204	250	264	68
90°	20	95	177	225	240	15
95°	48	176	716	345	302	47
105°	125	212	891	1520	1401	132
115°	208	274	676	1429	1634	206
125°	284	335	607	1093	1280	253
135°	331	393	572	882	1019	256
145°	376	429	549	701	776	235
155°	426	459	532	604	630	196
165°	465	478	509	540	549	131
175°	484	485	488	495	494	46
180°	485	485	485	485	485	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1234.8	1234.8	1234.8	1234.8	1234.8
2.5°	1241.6	1237.5	1226.8	1237.5	1236.2
5°	1236.2	1233.5	1225.4	1236.2	1234.8
7.5°	1226.8	1226.8	1218.7	1232.1	1230.8
10°	1213.3	1216.0	1209.3	1222.7	1220.0
12.5°	1197.2	1201.2	1197.2	1209.3	1206.6
15°	1177.0	1181.0	1179.7	1193.1	1191.8
17.5°	1152.8	1160.8	1159.5	1171.6	1168.9
20°	1125.9	1133.9	1136.6	1148.7	1150.1
22.5°	1097.6	1105.7	1109.7	1125.9	1124.5
25°	1062.7	1076.1	1080.1	1097.6	1097.6
27.5°	1029.0	1043.8	1051.9	1066.7	1068.0
30°	992.7	1010.2	1021.0	1037.1	1037.1
32.5°	952.4	972.5	987.3	1004.8	1008.8
35°	914.7	936.2	953.7	973.9	979.3
37.5°	874.3	898.5	918.7	941.6	945.6
40°	834.0	858.2	885.1	908.0	913.3
42.5°	789.6	820.5	848.8	874.3	882.4
45°	747.9	780.2	813.8	839.4	850.1
47.5°	703.5	739.8	777.5	805.7	813.8
50°	660.5	698.1	739.8	770.8	780.2
52.5°	614.7	655.1	702.2	734.4	746.5
55°	570.3	614.7	663.2	699.5	710.2
57.5°	527.3	573.0	625.5	661.8	673.9
60°	481.6	530.0	585.1	622.8	637.6
62.5°	438.5	488.3	547.5	585.1	598.6
65°	394.1	446.6	505.8	546.1	559.6
67.5°	349.7	404.9	464.1	508.5	519.2
70°	302.7	360.5	425.1	468.1	481.6
72.5°	259.6	317.5	384.7	429.1	442.5
75°	213.9	277.1	344.4	388.7	404.9
77.5°	174.9	238.1	305.3	352.4	364.5
80°	133.2	199.1	269.0	314.8	328.2
82.5°	96.8	164.1	235.4	281.1	294.6
85°	65.9	133.2	204.5	250.2	263.6
87.5°	40.4	107.6	176.2	221.9	235.4
90°	19.5	95.2	176.6	225.2	239.7
92.5°	30.8	133.0	324.0	248.0	249.8
95°	48.2	175.9	715.9	344.9	302.3
97.5°	66.6	186.2	1021.2	592.9	412.8
100°	84.8	192.2	1047.5	1050.2	785.6
102.5°	104.1	200.2	975.7	1343.9	1135.8
105°	124.8	211.5	890.9	1520.0	1400.6
107.5°	145.0	225.8	815.0	1591.8	1569.9
110°	167.3	240.6	752.3	1586.2	1662.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	188.9	256.3	706.9	1521.2	1675.3
115°	208.1	274.0	675.6	1428.6	1634.4
117.5°	228.8	289.2	650.8	1330.2	1557.6
120°	249.1	304.4	633.3	1236.6	1457.7
122.5°	267.8	320.0	619.7	1161.3	1365.2
125°	284.0	334.6	607.0	1093.2	1279.5
127.5°	297.8	351.0	597.4	1036.0	1204.6
130°	310.6	366.8	587.7	982.8	1140.1
132.5°	319.1	381.0	580.0	932.4	1079.4
135°	330.9	392.8	572.3	882.0	1018.9
137.5°	341.7	403.7	565.0	832.6	956.8
140°	351.1	413.5	558.6	785.6	893.1
142.5°	362.9	421.0	551.2	740.7	831.9
145°	375.7	428.9	549.3	701.0	775.7
147.5°	387.1	437.2	546.3	668.8	727.7
150°	399.9	444.2	542.4	642.2	685.6
152.5°	412.7	451.6	537.5	622.5	653.4
155°	425.5	458.9	531.6	604.3	629.9
157.5°	435.3	465.3	526.7	586.6	607.3
160°	447.1	470.7	520.8	570.4	585.6
162.5°	455.9	474.6	514.9	555.2	566.0
165°	464.8	478.0	509.0	540.0	549.3
167.5°	471.7	481.0	503.1	526.7	532.6
170°	477.6	482.4	497.2	514.9	517.8
172.5°	481.5	483.9	492.3	504.6	504.1
175°	484.4	484.9	488.4	495.2	494.3
177.5°	486.4	485.4	485.4	489.3	487.4
180°	485.4	485.4	485.4	485.4	485.4

(END OF REPORT)