

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: P1011496

Luminaire Tested: S123DIP-B340D1025UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011496
REPORT IS A COMBINATION OF REPORTS P989673 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D1025UB50-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

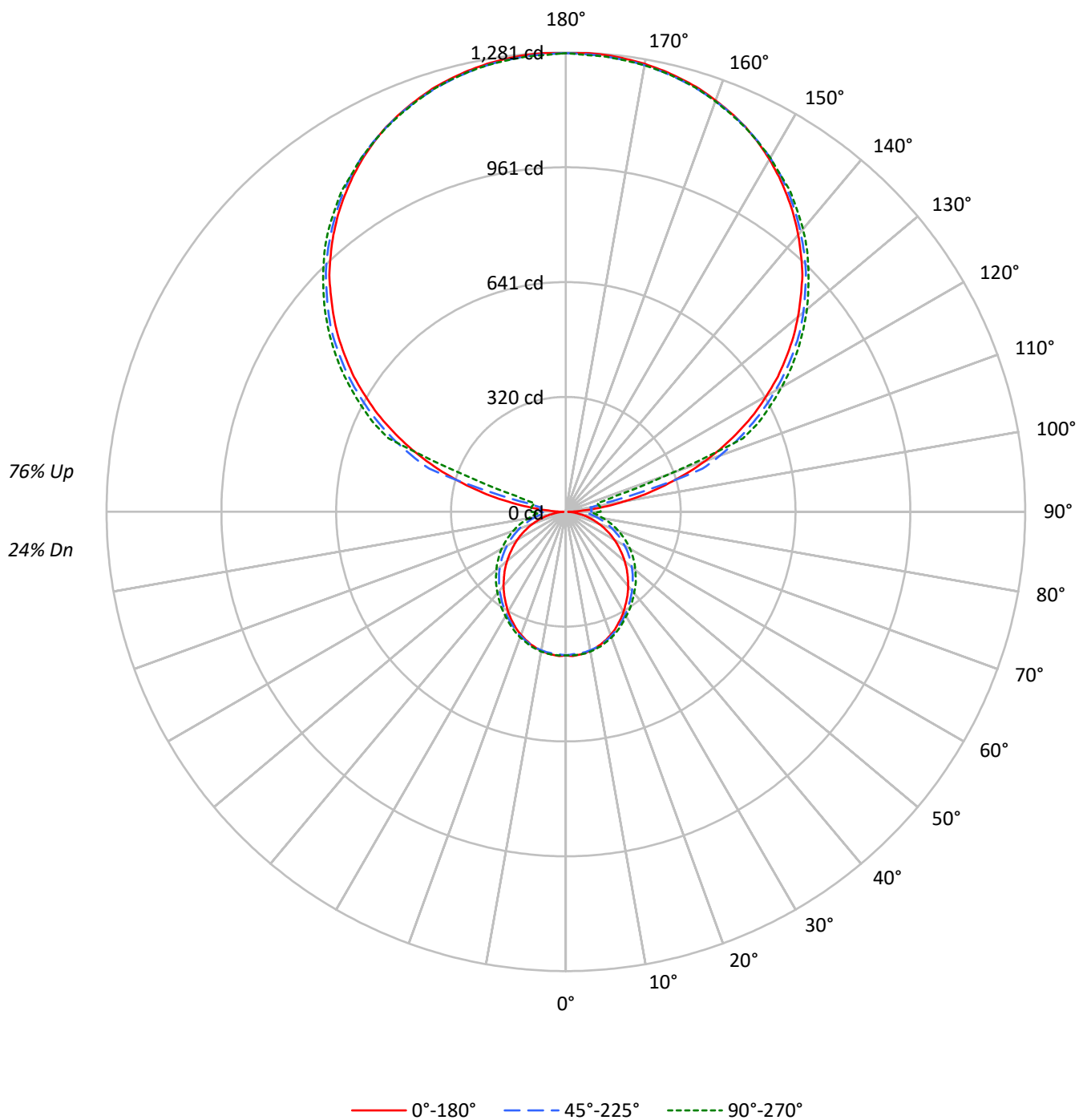
Lumens per Lamp: N/A
Luminaire Lumens: 5247.0 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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
RCR																	
0	101	101	101	101	90	90	90	90	69	69	69		49	49	49		32
1	91	87	83	80	81	77	74	71	59	57	55		43	41	40		27
2	83	76	70	64	73	67	62	58	52	48	45		37	35	33		24
3	75	66	59	53	67	59	53	48	45	41	38		33	30	28		21
4	69	58	51	45	61	52	45	40	40	35	32		29	26	23		18
5	63	52	44	38	56	46	39	34	36	31	27		26	23	20		17
6	58	46	38	33	51	41	35	30	32	27	23		23	20	17		15
7	53	41	34	28	47	37	30	26	29	24	20		21	18	15		14
8	49	37	30	25	44	34	27	23	26	21	18		19	16	13		12
9	46	34	27	22	41	31	24	20	24	19	16		17	14	12		11
10	43	31	24	19	38	28	22	18	22	17	14		16	13	11		11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4311	4311	4311
5°	4322	4184	4181
10°	4282	4071	4040
15°	4225	3946	3890
20°	4146	3807	3730
25°	4047	3649	3563
30°	3945	3507	3397
35°	3832	3358	3260
40°	3723	3222	3116
45°	3603	3089	2998
50°	3483	2959	2869
55°	3352	2824	2752
60°	3223	2687	2630
65°	3089	2540	2488
70°	2892	2377	2342
75°	2640	2190	2191
80°	2345	2001	2020
85°	2056	1846	1895

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3603 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.0	0.7
10°-20°	108.3	2.1
20°-30°	162.0	3.1
30°-40°	193.4	3.7
40°-50°	202.3	3.9
50°-60°	189.9	3.6
60°-70°	158.6	3.0
70°-80°	113.4	2.2
80°-90°	70.0	1.3
90°-100°	87.5	1.7
100°-110°	249.2	4.7
110°-120°	555.1	10.6
120°-130°	690.1	13.2
130°-140°	729.9	13.9
140°-150°	678.7	12.9
150°-160°	546.5	10.4
160°-170°	352.7	6.7
170°-180°	121.5	2.3
0°-30°	308.3	5.9
0°-40°	501.6	9.6
0°-60°	893.8	17.0
0°-90°	1235.9	23.6
90°-120°	891.8	17.0
90°-150°	2990.5	57.0
90°-180°	4011.0	76.4
0°-180°	5247.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	400	400	400	400	400	
5°	401	400	397	401	400	38
15°	382	383	383	387	386	108
25°	345	349	350	356	356	159
35°	297	304	309	316	318	186
45°	243	253	264	272	276	187
55°	185	199	215	227	230	166
65°	128	145	164	177	182	126
75°	69	90	112	126	131	74
85°	21	43	66	81	86	22
90°	7	38	72	91	97	7
95°	63	41	73	93	97	73
105°	287	308	241	85	91	304
115°	533	544	568	588	596	527
125°	750	758	774	785	790	670
135°	933	938	947	958	957	718
145°	1076	1082	1084	1089	1091	673
155°	1185	1183	1184	1188	1183	546
165°	1249	1246	1246	1253	1246	353
175°	1279	1274	1275	1282	1274	122
180°	1279	1279	1279	1279	1279	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	400.5	400.5	400.5	400.5	400.5
2.5°	402.7	401.4	397.9	401.4	400.9
5°	400.9	400.1	397.4	400.9	400.5
7.5°	397.9	397.9	395.3	399.6	399.2
10°	393.5	394.4	392.2	396.6	395.7
12.5°	388.3	389.6	388.3	392.2	391.3
15°	381.7	383.1	382.6	387.0	386.5
17.5°	373.9	376.5	376.1	380.0	379.1
20°	365.2	367.8	368.7	372.6	373.0
22.5°	356.0	358.6	359.9	365.2	364.7
25°	344.7	349.0	350.3	356.0	356.0
27.5°	333.8	338.6	341.2	346.0	346.4
30°	322.0	327.6	331.1	336.4	336.4
32.5°	308.9	315.4	320.2	325.9	327.2
35°	296.7	303.6	309.3	315.9	317.6
37.5°	283.6	291.4	298.0	305.4	306.7
40°	270.5	278.3	287.1	294.5	296.2
42.5°	256.1	266.1	275.3	283.6	286.2
45°	242.6	253.0	263.9	272.2	275.7
47.5°	228.2	240.0	252.2	261.3	263.9
50°	214.2	226.4	240.0	250.0	253.0
52.5°	199.4	212.5	227.7	238.2	242.1
55°	185.0	199.4	215.1	226.9	230.4
57.5°	171.0	185.9	202.9	214.6	218.6
60°	156.2	171.9	189.8	202.0	206.8
62.5°	142.2	158.4	177.6	189.8	194.1
65°	127.8	144.8	164.0	177.1	181.5
67.5°	113.4	131.3	150.5	164.9	168.4
70°	98.2	116.9	137.9	151.8	156.2
72.5°	84.2	103.0	124.8	139.2	143.5
75°	69.4	89.9	111.7	126.1	131.3
77.5°	56.7	77.2	99.0	114.3	118.2
80°	43.2	64.6	87.3	102.1	106.5
82.5°	31.4	53.2	76.3	91.2	95.5
85°	21.4	43.2	66.3	81.1	85.5
87.5°	13.1	34.9	57.2	72.0	76.3
90°	6.7	37.5	72.1	90.7	97.0
92.5°	27.1	40.2	70.5	91.6	96.4
95°	62.8	40.8	72.7	92.8	97.2
97.5°	109.9	99.0	71.0	91.7	97.0
100°	164.5	197.5	69.4	89.6	94.9
102.5°	226.8	251.3	105.6	86.6	92.8
105°	286.6	307.6	240.8	84.8	90.7
107.5°	349.9	367.5	399.7	265.2	144.6
110°	413.0	428.5	456.4	436.4	304.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	473.8	486.6	513.6	533.1	535.1
115°	533.3	544.2	568.4	588.4	595.7
117.5°	592.2	602.3	621.9	640.0	644.4
120°	645.8	656.6	673.8	691.5	694.5
122.5°	700.9	708.5	725.8	740.1	744.2
125°	749.9	757.5	774.0	785.0	790.0
127.5°	799.3	806.5	822.2	833.7	834.9
130°	844.9	852.1	864.6	876.7	877.4
132.5°	888.3	895.9	905.2	916.9	917.1
135°	932.9	938.1	946.7	957.5	956.8
137.5°	970.9	978.0	983.0	994.8	995.1
140°	1008.4	1014.1	1018.3	1028.7	1029.0
142.5°	1043.6	1048.9	1051.7	1060.3	1059.6
145°	1075.9	1082.1	1084.0	1089.4	1091.1
147.5°	1106.8	1111.6	1113.5	1116.7	1113.7
150°	1135.3	1138.2	1140.1	1142.0	1140.0
152.5°	1161.0	1161.9	1162.9	1166.7	1161.9
155°	1184.7	1182.8	1183.8	1188.5	1182.8
157.5°	1203.7	1203.7	1202.8	1208.5	1200.9
160°	1220.8	1219.9	1218.9	1224.6	1218.0
162.5°	1237.0	1234.1	1233.2	1239.8	1234.1
165°	1249.3	1246.5	1245.5	1253.1	1246.5
167.5°	1259.8	1256.0	1256.0	1263.6	1256.0
170°	1268.3	1264.5	1264.5	1272.1	1264.5
172.5°	1274.0	1269.3	1270.2	1277.8	1269.3
175°	1278.8	1274.0	1275.0	1281.6	1274.0
177.5°	1280.7	1275.9	1276.9	1284.5	1275.0
180°	1278.8	1278.8	1278.8	1278.8	1278.8

(END OF REPORT)