

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: P1011518

Luminaire Tested: S123DIP-B340D1195UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011518
REPORT IS A COMBINATION OF REPORTS P989710 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D1195UB30-4F0-XX-W2A-F1
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

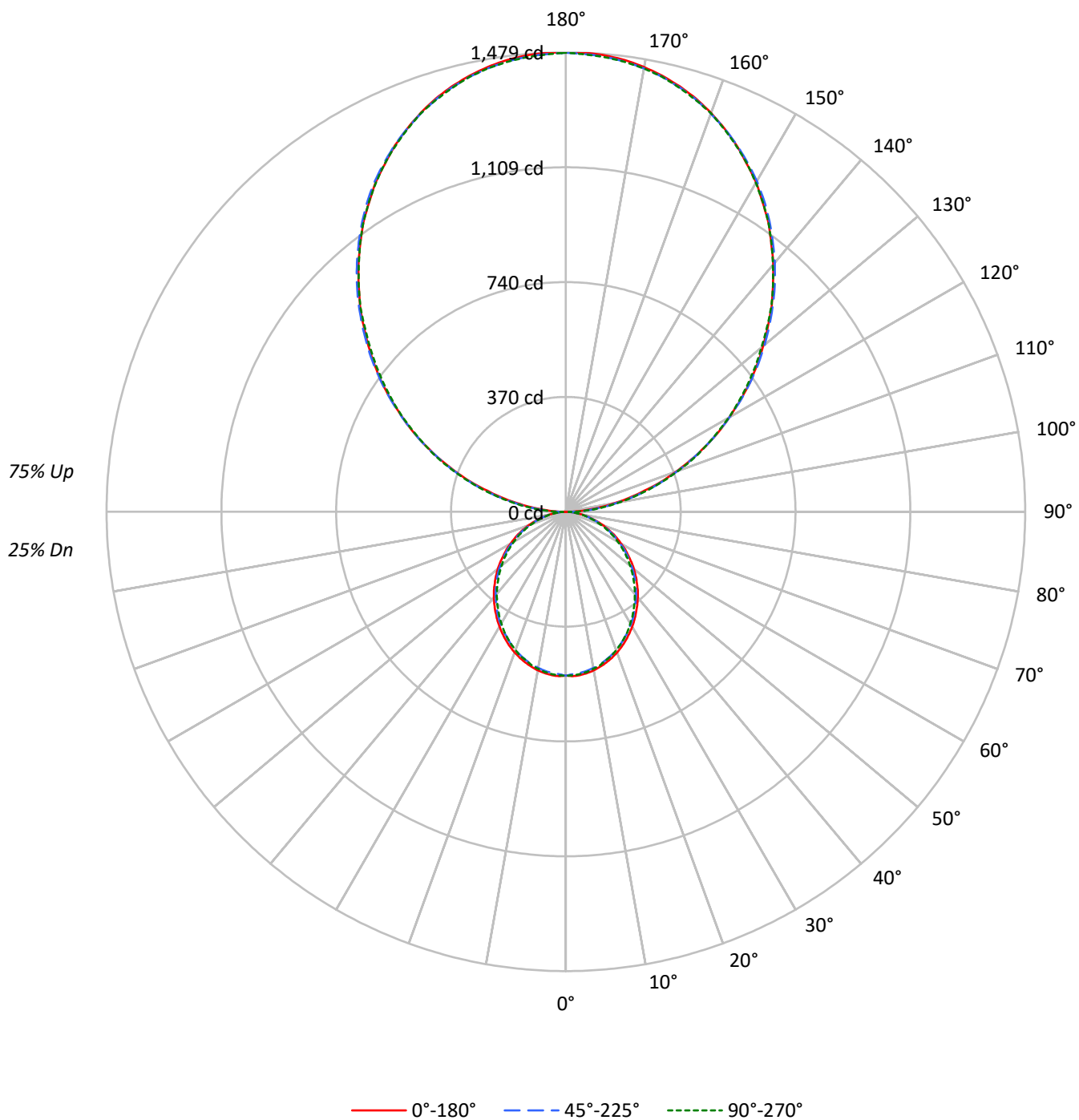
Lumens per Lamp: N/A
Luminaire Lumens: 5472.0 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
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	70	70	70	51	51	51	33	33	33
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	29	28
2	84	77	71	66	74	69	64	59	53	50	47	39	37	35	26	25	24
3	76	67	60	55	68	60	54	50	47	43	39	34	32	29	23	21	20
4	70	59	52	46	62	53	47	42	41	37	33	31	28	25	20	19	17
5	64	53	45	39	57	47	41	36	37	32	29	27	24	22	18	16	15
6	59	47	39	34	52	42	36	31	33	28	25	25	21	19	17	15	13
7	54	42	35	29	48	38	32	27	30	25	22	22	19	17	15	13	12
8	50	38	31	26	45	35	28	24	27	22	19	20	17	15	14	12	10
9	47	35	28	23	41	31	25	21	25	20	17	19	15	13	13	11	9
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5679	5679	5679
5°	5693	5483	5475
10°	5642	5297	5243
15°	5564	5104	4990
20°	5474	4890	4740
25°	5357	4664	4472
30°	5230	4429	4191
35°	5096	4190	3911
40°	4957	3940	3637
45°	4803	3695	3349
50°	4647	3423	3061
55°	4446	3140	2769
60°	4240	2826	2457
65°	4047	2487	2133
70°	3767	2112	1754
75°	3366	1672	1363
80°	2904	1176	963
85°	2267	632	483

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4803 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.7	0.9
10°-20°	140.4	2.6
20°-30°	207.4	3.8
30°-40°	242.2	4.4
40°-50°	243.5	4.5
50°-60°	213.9	3.9
60°-70°	159.3	2.9
70°-80°	90.7	1.7
80°-90°	28.9	0.5
90°-100°	95.2	1.7
100°-110°	288.0	5.3
110°-120°	490.3	9.0
120°-130°	645.0	11.8
130°-140°	725.0	13.3
140°-150°	712.8	13.0
150°-160°	600.1	11.0
160°-170°	399.5	7.3
170°-180°	139.9	2.6
0°-30°	397.6	7.3
0°-40°	639.8	11.7
0°-60°	1097.2	20.1
0°-90°	1376.1	25.1
90°-120°	873.5	16.0
90°-150°	2956.4	54.0
90°-180°	4096.0	74.9
0°-180°	5472.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	528	528	528	528	528	
5°	528	526	521	525	524	50
15°	503	501	495	498	496	142
25°	456	454	448	448	447	210
35°	395	392	386	383	381	247
45°	323	322	316	310	308	250
55°	245	245	239	234	232	220
65°	167	165	161	157	156	165
75°	88	87	85	83	82	94
85°	24	23	23	22	22	25
90°	1	13	28	32	35	7
95°	68	77	86	91	91	75
105°	261	264	274	274	276	280
115°	494	497	495	496	495	488
125°	722	726	723	719	714	644
135°	937	944	943	938	936	722
145°	1137	1139	1143	1142	1137	710
155°	1302	1302	1303	1308	1299	599
165°	1418	1414	1414	1421	1413	400
175°	1475	1470	1470	1477	1469	140
180°	1478	1478	1478	1478	1478	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	527.6	527.6	527.6	527.6	527.6
2.5°	529.8	528.0	523.0	527.6	527.1
5°	528.0	525.7	520.8	525.3	524.4
7.5°	523.9	521.7	516.7	520.8	520.3
10°	518.5	516.2	510.3	514.4	513.5
12.5°	511.2	509.4	504.0	506.7	506.2
15°	502.6	500.8	494.9	498.5	495.8
17.5°	493.1	490.8	484.9	487.6	486.7
20°	482.2	479.5	473.6	475.4	474.0
22.5°	469.9	467.2	461.3	462.7	460.9
25°	456.3	453.6	447.7	448.2	446.8
27.5°	442.3	439.6	433.2	433.7	432.3
30°	426.9	424.6	418.2	418.2	415.1
32.5°	411.4	408.3	403.7	400.5	399.2
35°	394.6	391.9	386.0	383.3	381.0
37.5°	377.9	374.2	368.3	365.2	363.8
40°	360.2	357.5	351.1	347.5	345.7
42.5°	342.5	339.3	333.0	329.3	327.5
45°	323.4	321.6	315.7	310.3	308.0
47.5°	304.8	302.1	296.7	291.2	289.4
50°	285.8	283.5	277.6	272.6	269.9
52.5°	265.8	264.5	258.1	254.0	251.3
55°	245.4	245.0	239.1	234.1	231.8
57.5°	226.4	224.5	220.0	215.5	212.7
60°	205.5	205.0	199.6	195.5	193.2
62.5°	186.9	185.5	180.1	176.0	174.6
65°	167.4	165.1	160.6	157.0	155.6
67.5°	146.5	144.7	141.1	137.9	136.1
70°	127.9	125.2	122.5	119.3	117.0
72.5°	108.4	106.6	103.4	100.7	99.8
75°	88.5	86.6	85.3	83.0	81.7
77.5°	70.8	69.9	68.0	66.2	66.2
80°	53.5	52.2	51.3	50.8	50.8
82.5°	36.7	36.7	36.7	35.8	35.4
85°	23.6	22.7	22.7	21.8	21.8
87.5°	11.8	10.4	10.0	9.5	9.5
90°	1.2	12.8	27.9	32.5	34.8
92.5°	34.8	41.8	48.8	52.3	49.9
95°	68.5	76.6	85.9	90.6	90.6
97.5°	112.6	118.4	125.4	131.2	130.1
100°	157.9	164.9	170.7	174.2	176.5
102.5°	210.2	213.7	221.8	225.3	224.1
105°	261.3	263.6	274.0	274.0	276.4
107.5°	321.7	322.8	327.5	330.9	329.8
110°	377.4	379.7	382.0	386.7	384.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	435.5	436.6	436.6	442.4	442.4
115°	493.5	497.0	494.7	495.8	494.7
117.5°	552.7	553.9	551.6	551.6	548.1
120°	607.3	614.3	608.5	607.3	605.0
122.5°	664.2	668.9	666.5	663.1	659.6
125°	722.3	725.8	723.4	718.8	714.1
127.5°	775.7	782.7	780.3	773.4	768.7
130°	829.1	838.4	834.9	830.3	822.1
132.5°	882.5	891.8	889.5	883.7	877.9
135°	937.1	944.1	942.9	938.3	935.9
137.5°	987.0	992.8	996.3	990.5	987.0
140°	1039.3	1045.1	1046.2	1045.1	1037.0
142.5°	1086.9	1092.7	1095.0	1093.9	1088.1
145°	1136.8	1139.1	1142.6	1141.5	1136.8
147.5°	1179.8	1184.4	1187.9	1187.9	1180.9
150°	1225.1	1227.4	1229.7	1229.7	1222.8
152.5°	1262.2	1265.7	1266.9	1269.2	1263.4
155°	1301.7	1301.7	1302.9	1307.5	1299.4
157.5°	1335.4	1334.2	1335.4	1340.0	1333.1
160°	1366.7	1364.4	1364.4	1370.2	1365.6
162.5°	1394.6	1391.1	1392.3	1398.1	1390.0
165°	1417.8	1414.4	1414.4	1421.3	1413.2
167.5°	1437.6	1432.9	1434.1	1441.1	1434.1
170°	1453.8	1449.2	1449.2	1457.3	1449.2
172.5°	1466.6	1462.0	1462.0	1468.9	1460.8
175°	1474.7	1470.1	1470.1	1477.1	1468.9
177.5°	1479.4	1474.7	1474.7	1481.7	1473.6
180°	1478.2	1478.2	1478.2	1478.2	1478.2

(END OF REPORT)