

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: P1011510

Luminaire Tested: S123DIP-B340D1195UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011510
REPORT IS A COMBINATION OF REPORTS P989687 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D1195UB27-4F0-XX-W2A-F4
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

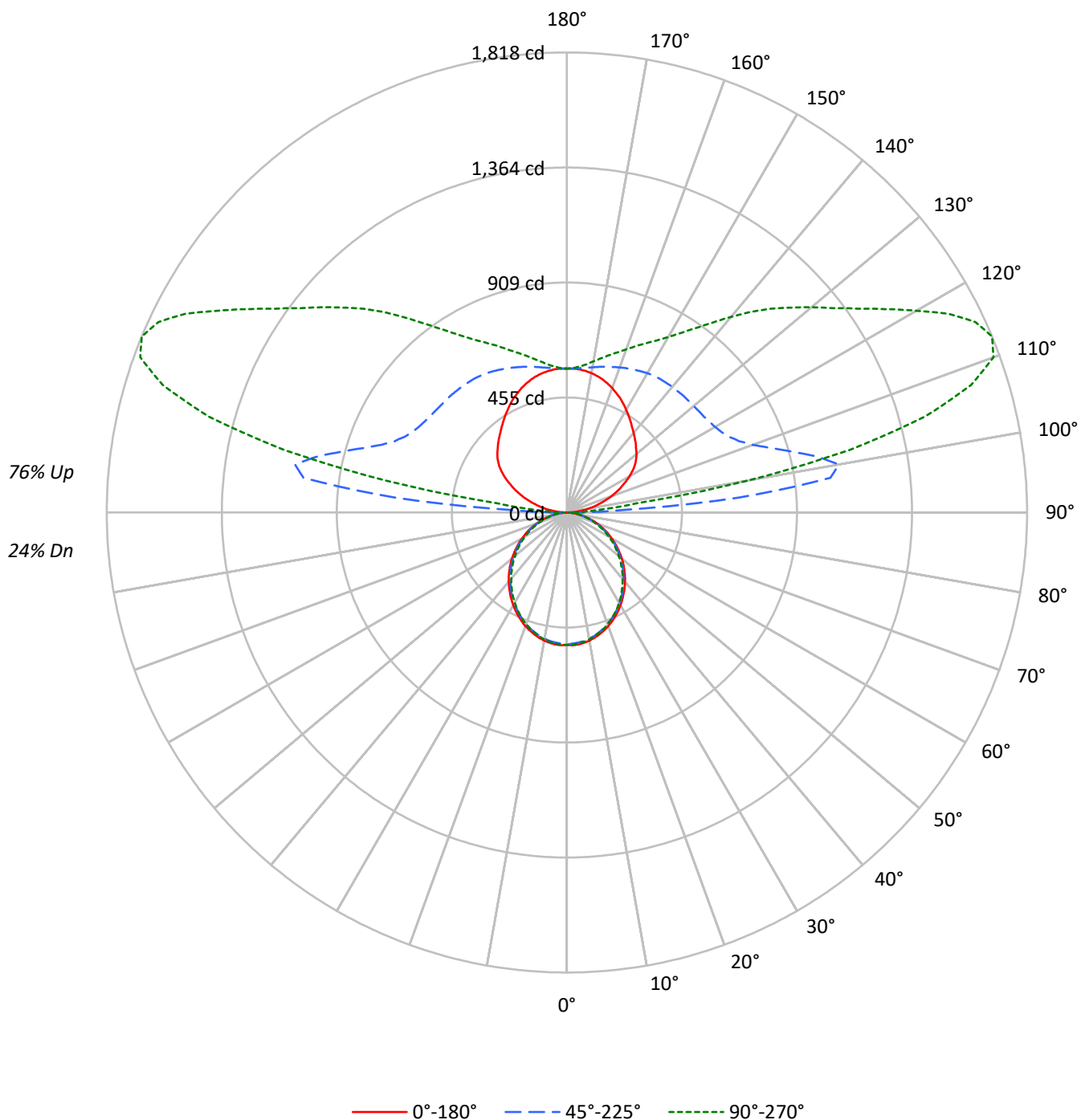
Lumens per Lamp: N/A
Luminaire Lumens: 5651.9 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	69	69	69	50	50	50	32	32	32
1	92	88	84	81	82	78	75	72	60	58	56	44	42	41	28	28	27
2	84	77	71	66	74	68	63	59	53	49	47	38	36	34	25	24	23
3	76	67	60	55	68	60	54	49	46	42	39	34	31	29	22	21	19
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17
5	64	53	45	39	56	47	41	36	37	32	28	27	24	21	18	16	14
6	59	47	39	34	52	42	36	31	33	28	25	24	21	19	16	14	13
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	15	13	11
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10
9	46	35	28	23	41	31	25	21	25	20	17	18	15	13	12	10	9
10	43	32	25	20	38	29	23	18	23	18	15	17	14	12	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5628	5628	5628
5°	5643	5435	5427
10°	5593	5251	5197
15°	5515	5060	4947
20°	5426	4847	4699
25°	5311	4623	4433
30°	5184	4391	4154
35°	5052	4155	3877
40°	4913	3905	3604
45°	4761	3664	3320
50°	4607	3393	3033
55°	4408	3112	2745
60°	4203	2800	2437
65°	4010	2466	2114
70°	3734	2093	1739
75°	3336	1656	1350
80°	2883	1164	956
85°	2248	627	479

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4761 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	0.9
10°-20°	139.2	2.5
20°-30°	205.6	3.6
30°-40°	240.1	4.2
40°-50°	241.4	4.3
50°-60°	212.1	3.8
60°-70°	157.9	2.8
70°-80°	89.9	1.6
80°-90°	28.7	0.5
90°-100°	323.2	5.7
100°-110°	903.3	16.0
110°-120°	880.8	15.6
120°-130°	701.4	12.4
130°-140°	553.6	9.8
140°-150°	413.0	7.3
150°-160°	288.1	5.1
160°-170°	169.3	3.0
170°-180°	55.1	1.0
0°-30°	394.1	7.0
0°-40°	634.2	11.2
0°-60°	1087.7	19.2
0°-90°	1364.2	24.1
90°-120°	2107.3	37.3
90°-150°	3775.3	66.8
90°-180°	4288.0	75.9
0°-180°	5651.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	523	523	523	523	523	
5°	523	521	516	521	520	50
15°	498	496	491	494	492	140
25°	452	450	444	444	443	208
35°	391	388	383	380	378	245
45°	321	319	313	308	305	248
55°	243	243	237	232	230	218
65°	166	164	159	156	154	164
75°	88	86	84	82	81	94
85°	23	22	22	22	22	25
90°	2	14	29	32	33	5
95°	39	127	683	199	134	41
105°	134	197	926	1619	1464	142
115°	236	294	708	1552	1781	234
125°	328	387	661	1197	1404	291
135°	384	459	652	986	1139	297
145°	439	502	644	809	890	275
155°	498	538	623	708	738	229
165°	544	560	596	633	644	153
175°	568	568	572	580	579	54
180°	569	569	569	569	569	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	522.9	522.9	522.9	522.9	522.9
2.5°	525.2	523.4	518.5	522.9	522.5
5°	523.4	521.1	516.2	520.7	519.8
7.5°	519.4	517.1	512.2	516.2	515.8
10°	514.0	511.7	505.9	509.9	509.0
12.5°	506.8	505.0	499.6	502.3	501.8
15°	498.2	496.4	490.6	494.2	491.5
17.5°	488.8	486.5	480.7	483.4	482.5
20°	478.0	475.3	469.4	471.2	469.9
22.5°	465.8	463.1	457.3	458.6	456.8
25°	452.4	449.7	443.8	444.3	442.9
27.5°	438.4	435.7	429.4	429.9	428.5
30°	423.1	420.9	414.6	414.6	411.4
32.5°	407.8	404.7	400.2	397.0	395.7
35°	391.2	388.5	382.7	380.0	377.7
37.5°	374.6	371.0	365.1	362.0	360.6
40°	357.0	354.3	348.0	344.4	342.6
42.5°	339.5	336.3	330.0	326.4	324.6
45°	320.6	318.8	313.0	307.6	305.3
47.5°	302.2	299.5	294.1	288.7	286.9
50°	283.3	281.0	275.2	270.2	267.5
52.5°	263.5	262.1	255.9	251.8	249.1
55°	243.3	242.8	237.0	232.0	229.8
57.5°	224.4	222.6	218.1	213.6	210.9
60°	203.7	203.2	197.8	193.8	191.6
62.5°	185.3	183.9	178.5	174.5	173.1
65°	165.9	163.7	159.2	155.6	154.2
67.5°	145.2	143.4	139.8	136.7	134.9
70°	126.8	124.1	121.4	118.3	116.0
72.5°	107.5	105.7	102.5	99.8	98.9
75°	87.7	85.9	84.5	82.3	80.9
77.5°	70.1	69.2	67.4	65.6	65.6
80°	53.1	51.7	50.8	50.4	50.4
82.5°	36.4	36.4	36.4	35.5	35.1
85°	23.4	22.5	22.5	21.6	21.6
87.5°	11.7	10.3	9.9	9.4	9.4
90°	2.3	13.8	28.8	32.2	33.4
92.5°	17.3	69.1	214.1	73.1	61.0
95°	39.1	127.2	682.7	199.2	133.5
97.5°	62.2	145.6	1049.9	500.8	274.0
100°	85.2	160.6	1090.2	1047.6	721.8
102.5°	109.4	177.8	1015.4	1402.8	1143.2
105°	133.5	197.4	925.6	1618.6	1464.4
107.5°	158.9	220.5	846.1	1713.6	1673.9
110°	186.5	244.0	780.5	1716.5	1793.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	211.8	268.8	736.8	1651.4	1817.8
115°	236.0	294.2	708.0	1552.4	1780.9
117.5°	260.2	318.3	688.4	1446.6	1700.4
120°	285.5	342.5	675.8	1346.4	1594.4
122.5°	307.4	365.6	667.7	1267.5	1495.4
125°	328.1	387.4	660.8	1197.2	1404.5
127.5°	344.2	408.2	657.3	1139.7	1326.2
130°	359.2	426.6	653.9	1086.8	1261.7
132.5°	370.7	443.2	652.7	1037.2	1198.4
135°	384.5	458.8	651.6	986.0	1138.6
137.5°	397.2	471.4	649.3	937.6	1075.2
140°	409.8	482.9	648.1	890.4	1008.5
142.5°	423.7	493.3	645.8	847.3	946.3
145°	438.6	502.5	643.5	808.7	889.9
147.5°	453.6	512.3	640.1	778.8	841.5
150°	468.5	520.4	635.5	752.3	800.1
152.5°	483.5	529.0	629.7	729.3	765.6
155°	498.5	537.7	622.8	708.0	737.9
157.5°	510.0	545.1	617.1	687.2	711.5
160°	523.8	551.4	610.1	668.3	686.1
162.5°	534.2	556.0	603.2	650.4	663.1
165°	544.5	560.0	596.3	632.6	643.5
167.5°	552.6	563.5	589.4	617.1	624.0
170°	559.5	565.2	582.5	603.2	606.7
172.5°	564.1	567.0	576.8	591.2	590.6
175°	567.6	568.2	572.2	580.2	579.1
177.5°	569.9	568.7	568.7	573.3	571.0
180°	568.7	568.7	568.7	568.7	568.7

(END OF REPORT)