

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: P1010566

Luminaire Tested: S123DIP-B340D1195UB2750-4F0-XX-W2A-D_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010566
REPORT IS A COMBINATION OF REPORTS P989695 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D1195UB2750-4F0-XX-W2A-D_3500K
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

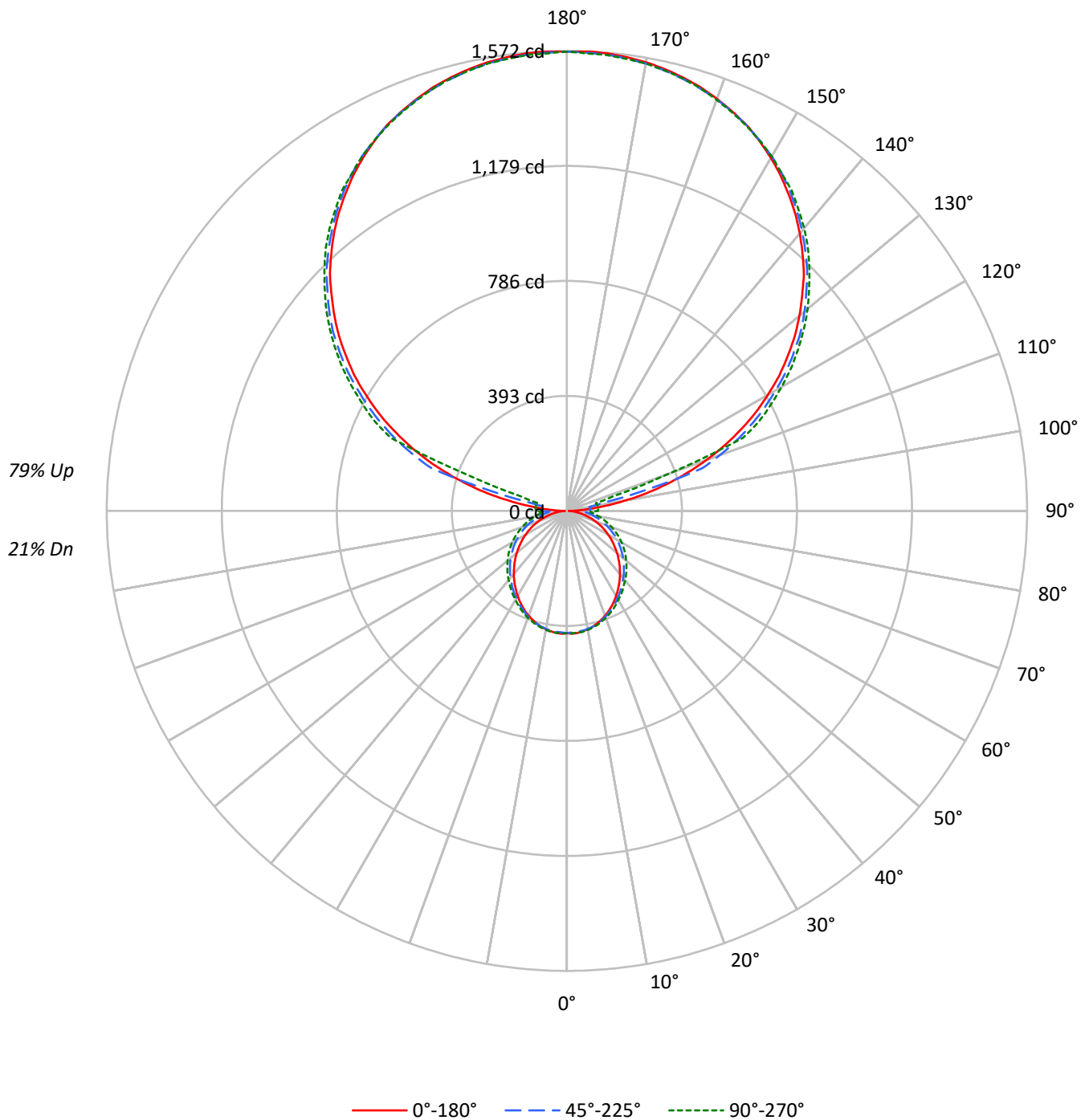
Lumens per Lamp: N/A
Luminaire Lumens: 6193.0 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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	50	30	10
RCR																				
0	100	100	100	100	89	89	89	89	67	67	67	47	47	47	29	29	29	21		
1	91	86	83	79	80	77	73	70	58	56	54	41	40	38	25	24	24	17		
2	82	75	69	64	73	67	62	57	50	47	44	36	34	32	22	21	20	14		
3	75	66	59	53	66	58	52	48	44	40	37	31	29	27	19	18	17	11		
4	68	58	50	45	60	52	45	40	39	35	31	28	25	23	17	15	14	10		
5	63	51	44	38	55	46	39	34	35	30	27	25	22	19	15	14	12	8		
6	58	46	38	33	51	41	34	29	31	26	23	22	19	17	14	12	11	7		
7	53	41	34	28	47	37	30	25	28	23	20	20	17	15	13	11	9	6		
8	49	37	30	25	43	33	27	22	25	21	18	18	15	13	11	10	8	6		
9	46	34	27	22	40	30	24	20	23	19	16	17	14	11	11	9	7	5		
10	42	31	24	19	37	28	21	17	21	17	14	15	12	10	10	8	7	5		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4500	4500	4500
5°	4512	4368	4365
10°	4470	4250	4217
15°	4411	4119	4061
20°	4327	3973	3894
25°	4224	3809	3720
30°	4118	3660	3545
35°	4000	3505	3403
40°	3885	3363	3253
45°	3760	3225	3129
50°	3636	3089	2995
55°	3499	2948	2872
60°	3363	2805	2746
65°	3225	2652	2597
70°	3019	2481	2444
75°	2754	2286	2287
80°	2448	2088	2107
85°	2142	1927	1979

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3760 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.7	0.6
10°-20°	113.1	1.8
20°-30°	169.1	2.7
30°-40°	201.9	3.3
40°-50°	211.2	3.4
50°-60°	198.2	3.2
60°-70°	165.5	2.7
70°-80°	118.4	1.9
80°-90°	73.6	1.2
90°-100°	99.6	1.6
100°-110°	300.1	4.8
110°-120°	677.5	10.9
120°-130°	844.9	13.6
130°-140°	894.9	14.4
140°-150°	832.8	13.4
150°-160°	670.8	10.8
160°-170°	432.9	7.0
170°-180°	149.2	2.4
0°-30°	321.8	5.2
0°-40°	523.6	8.5
0°-60°	933.0	15.1
0°-90°	1290.5	20.8
90°-120°	1077.2	17.4
90°-150°	3649.7	58.9
90°-180°	4902.0	79.2
0°-180°	6193.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	418	418	418	418	418	
5°	418	418	415	418	418	40
15°	398	400	399	404	404	112
25°	360	364	366	372	372	166
35°	310	317	323	330	332	194
45°	253	264	276	284	288	195
55°	193	208	224	237	240	173
65°	133	151	171	185	189	132
75°	72	94	117	132	137	77
85°	22	45	69	85	89	23
90°	7	41	80	100	106	8
95°	76	46	81	104	108	89
105°	351	375	290	96	102	372
115°	654	666	693	716	724	646
125°	920	930	948	959	965	822
135°	1145	1151	1161	1173	1172	881
145°	1320	1328	1330	1336	1338	827
155°	1454	1452	1453	1459	1452	670
165°	1533	1530	1529	1538	1530	433
175°	1570	1564	1565	1573	1564	149
180°	1570	1570	1570	1570	1570	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	418.1	418.1	418.1	418.1	418.1
2.5°	420.3	419.0	415.3	419.0	418.5
5°	418.5	417.6	414.9	418.5	418.1
7.5°	415.3	415.3	412.6	417.1	416.7
10°	410.8	411.7	409.4	414.0	413.0
12.5°	405.3	406.7	405.3	409.4	408.5
15°	398.5	399.8	399.4	403.9	403.5
17.5°	390.3	393.0	392.6	396.7	395.7
20°	381.2	383.9	384.8	388.9	389.4
22.5°	371.6	374.3	375.7	381.2	380.7
25°	359.8	364.3	365.7	371.6	371.6
27.5°	348.4	353.4	356.1	361.1	361.6
30°	336.1	342.0	345.6	351.1	351.1
32.5°	322.4	329.3	334.3	340.2	341.6
35°	309.7	317.0	322.9	329.7	331.5
37.5°	296.0	304.2	311.0	318.8	320.1
40°	282.3	290.5	299.7	307.4	309.2
42.5°	267.3	277.8	287.4	296.0	298.7
45°	253.2	264.1	275.5	284.2	287.8
47.5°	238.2	250.5	263.2	272.8	275.5
50°	223.6	236.4	250.5	260.9	264.1
52.5°	208.1	221.8	237.7	248.6	252.7
55°	193.1	208.1	224.5	236.8	240.5
57.5°	178.5	194.0	211.8	224.1	228.2
60°	163.0	179.4	198.1	210.9	215.9
62.5°	148.5	165.3	185.3	198.1	202.7
65°	133.4	151.2	171.2	184.9	189.4
67.5°	118.4	137.1	157.1	172.1	175.8
70°	102.5	122.0	143.9	158.5	163.0
72.5°	87.9	107.5	130.2	145.3	149.8
75°	72.4	93.8	116.6	131.6	137.1
77.5°	59.2	80.6	103.4	119.3	123.4
80°	45.1	67.4	91.1	106.6	111.1
82.5°	32.8	55.6	79.7	95.2	99.7
85°	22.3	45.1	69.2	84.7	89.3
87.5°	13.7	36.4	59.7	75.1	79.7
90°	7.1	41.0	79.5	99.6	106.5
92.5°	32.3	44.8	78.1	101.3	106.5
95°	76.1	46.1	81.2	103.5	108.1
97.5°	134.0	117.7	79.7	102.6	108.4
100°	201.2	239.1	78.1	100.6	106.4
102.5°	277.6	305.6	123.2	97.4	104.3
105°	351.1	374.9	289.6	95.9	102.3
107.5°	428.8	448.9	485.0	317.7	169.1
110°	506.4	524.0	555.0	528.4	365.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	581.1	595.6	625.8	647.7	649.4
115°	654.1	666.5	693.4	716.1	724.4
117.5°	726.4	738.2	759.5	779.8	784.6
120°	792.4	805.2	823.7	843.5	846.7
122.5°	860.0	869.1	887.9	903.8	908.2
125°	920.3	929.6	947.5	959.3	964.8
127.5°	980.9	989.7	1007.0	1019.6	1020.4
130°	1036.9	1045.7	1059.5	1072.8	1073.2
132.5°	1090.0	1099.3	1109.6	1122.5	1122.2
135°	1144.8	1151.4	1161.1	1172.8	1171.5
137.5°	1191.5	1200.4	1205.8	1219.0	1218.9
140°	1237.7	1244.7	1249.5	1261.1	1260.9
142.5°	1280.9	1287.3	1290.8	1300.2	1299.0
145°	1320.5	1328.2	1330.5	1336.4	1338.3
147.5°	1358.5	1364.3	1366.6	1370.4	1366.3
150°	1393.5	1397.0	1399.3	1401.6	1399.0
152.5°	1424.9	1426.1	1427.3	1431.9	1426.1
155°	1454.1	1451.8	1452.9	1458.8	1451.8
157.5°	1477.4	1477.4	1476.3	1483.2	1473.9
160°	1498.4	1497.2	1496.1	1503.1	1494.9
162.5°	1518.2	1514.7	1513.6	1521.7	1514.7
165°	1533.4	1529.9	1528.7	1538.1	1529.9
167.5°	1546.2	1541.6	1541.6	1550.9	1541.6
170°	1556.7	1552.0	1552.0	1561.4	1552.0
172.5°	1563.7	1557.9	1559.0	1568.4	1557.9
175°	1569.5	1563.7	1564.9	1573.0	1563.7
177.5°	1571.9	1566.0	1567.2	1576.5	1564.9
180°	1569.5	1569.5	1569.5	1569.5	1569.5

(END OF REPORT)