

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: P1011541

Luminaire Tested: S123DIP-B340D1195UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011541
REPORT IS A COMBINATION OF REPORTS P989733 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D1195UB50-4F0-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

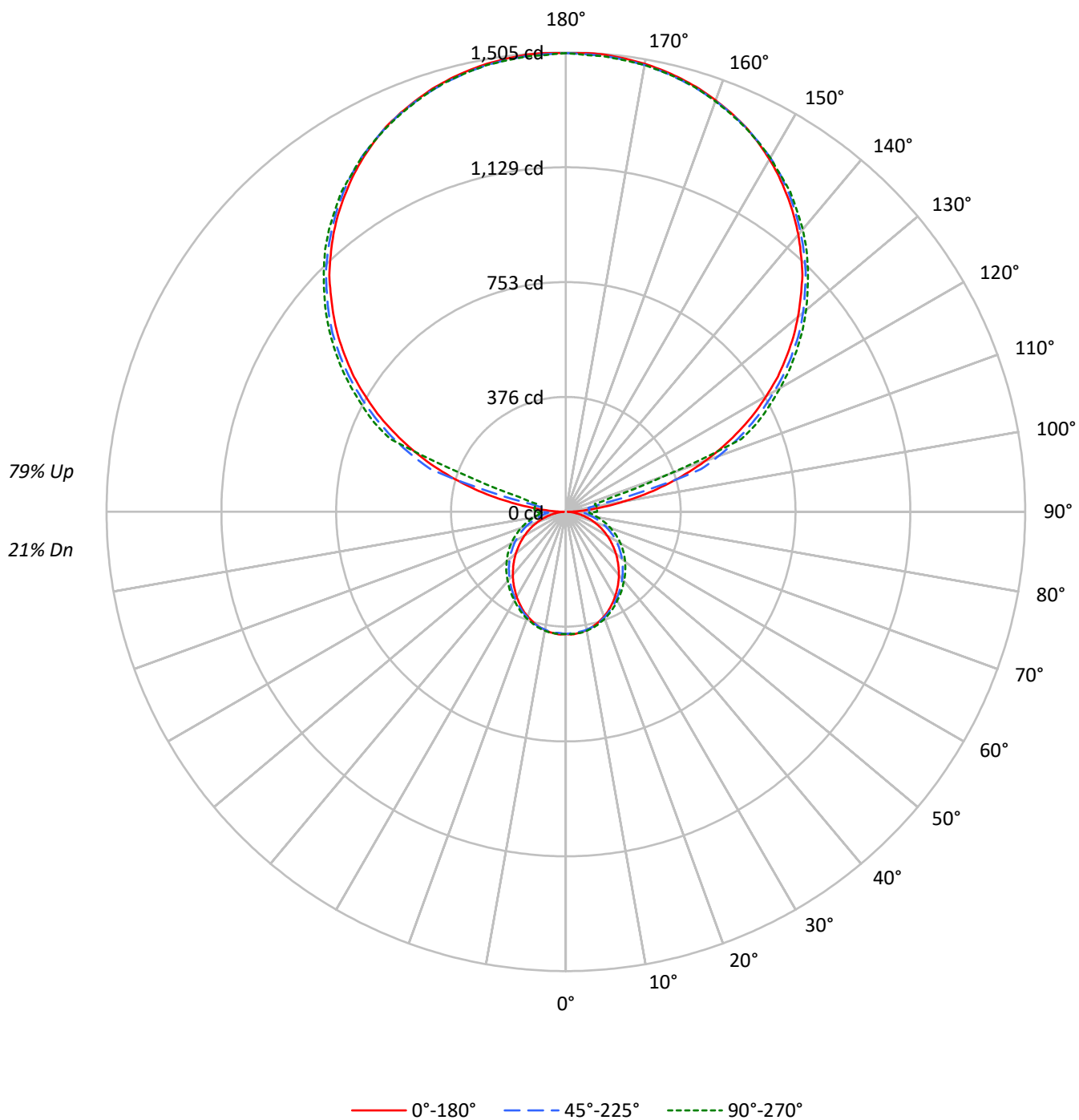
Lumens per Lamp: N/A
Luminaire Lumens: 5930.0 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

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	0.6
10°-20°	108.3	1.8
20°-30°	162.0	2.7
30°-40°	193.4	3.3
40°-50°	202.3	3.4
50°-60°	189.9	3.2
60°-70°	158.6	2.7
70°-80°	113.4	1.9
80°-90°	70.5	1.2
90°-100°	95.4	1.6
100°-110°	287.4	4.8
110°-120°	648.6	10.9
120°-130°	808.9	13.6
130°-140°	856.7	14.4
140°-150°	797.3	13.4
150°-160°	642.2	10.8
160°-170°	414.4	7.0
170°-180°	142.8	2.4
0°-30°	308.3	5.2
0°-40°	501.6	8.5
0°-60°	893.8	15.1
0°-90°	1236.3	20.8
90°-120°	1031.4	17.4
90°-150°	3494.3	58.9
90°-180°	4694.0	79.2
0°-180°	5930.0	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	39	76	95	102	8
95°	73	44	78	99	104	85
105°	336	359	277	92	98	356
115°	626	638	664	686	694	619
125°	881	890	907	918	924	787
135°	1096	1102	1112	1123	1122	844
145°	1264	1272	1274	1280	1281	791
155°	1392	1390	1391	1397	1390	641
165°	1468	1465	1464	1472	1465	415
175°	1503	1497	1498	1506	1497	143
180°	1503	1503	1503	1503	1503	

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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°	6.8	39.3	76.1	95.4	102.0
92.5°	30.9	43.0	74.8	97.0	102.1
95°	72.9	44.1	77.8	99.1	103.5
97.5°	128.3	112.8	76.3	98.4	103.8
100°	192.6	228.9	74.8	96.4	101.9
102.5°	265.9	292.6	117.9	93.4	99.9
105°	336.2	359.0	277.2	91.8	98.0
107.5°	410.6	429.7	464.4	304.3	161.9
110°	484.9	501.7	531.4	506.0	349.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	556.3	570.2	599.1	620.1	621.7
115°	626.3	638.2	663.9	685.6	693.5
117.5°	695.5	706.8	727.2	746.6	751.2
120°	758.6	770.9	788.6	807.6	810.6
122.5°	823.4	832.1	850.0	865.2	869.4
125°	881.0	889.9	907.1	918.4	923.8
127.5°	939.1	947.6	964.1	976.1	977.0
130°	992.7	1001.2	1014.4	1027.1	1027.5
132.5°	1043.6	1052.5	1062.4	1074.8	1074.4
135°	1096.1	1102.3	1111.5	1122.8	1121.6
137.5°	1140.7	1149.2	1154.5	1167.1	1167.0
140°	1184.9	1191.6	1196.2	1207.3	1207.3
142.5°	1226.2	1232.5	1235.8	1244.9	1243.7
145°	1264.2	1271.6	1273.8	1279.5	1281.2
147.5°	1300.6	1306.2	1308.4	1311.9	1308.2
150°	1334.1	1337.4	1339.7	1341.9	1339.5
152.5°	1364.2	1365.3	1366.5	1370.9	1365.3
155°	1392.1	1389.9	1391.0	1396.6	1389.9
157.5°	1414.5	1414.5	1413.4	1420.1	1411.1
160°	1434.6	1433.4	1432.3	1439.0	1431.2
162.5°	1453.5	1450.2	1449.1	1456.9	1450.2
165°	1468.1	1464.7	1463.6	1472.5	1464.7
167.5°	1480.3	1475.9	1475.9	1484.8	1475.9
170°	1490.4	1485.9	1485.9	1494.8	1485.9
172.5°	1497.1	1491.5	1492.6	1501.5	1491.5
175°	1502.7	1497.1	1498.2	1506.0	1497.1
177.5°	1504.9	1499.3	1500.4	1509.4	1498.2
180°	1502.7	1502.7	1502.7	1502.7	1502.7

(END OF REPORT)