

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: P1011724

Luminaire Tested: S123DIP-B560D1195UB27-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011724
REPORT IS A COMBINATION OF REPORTS P989982 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D1195UB27-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

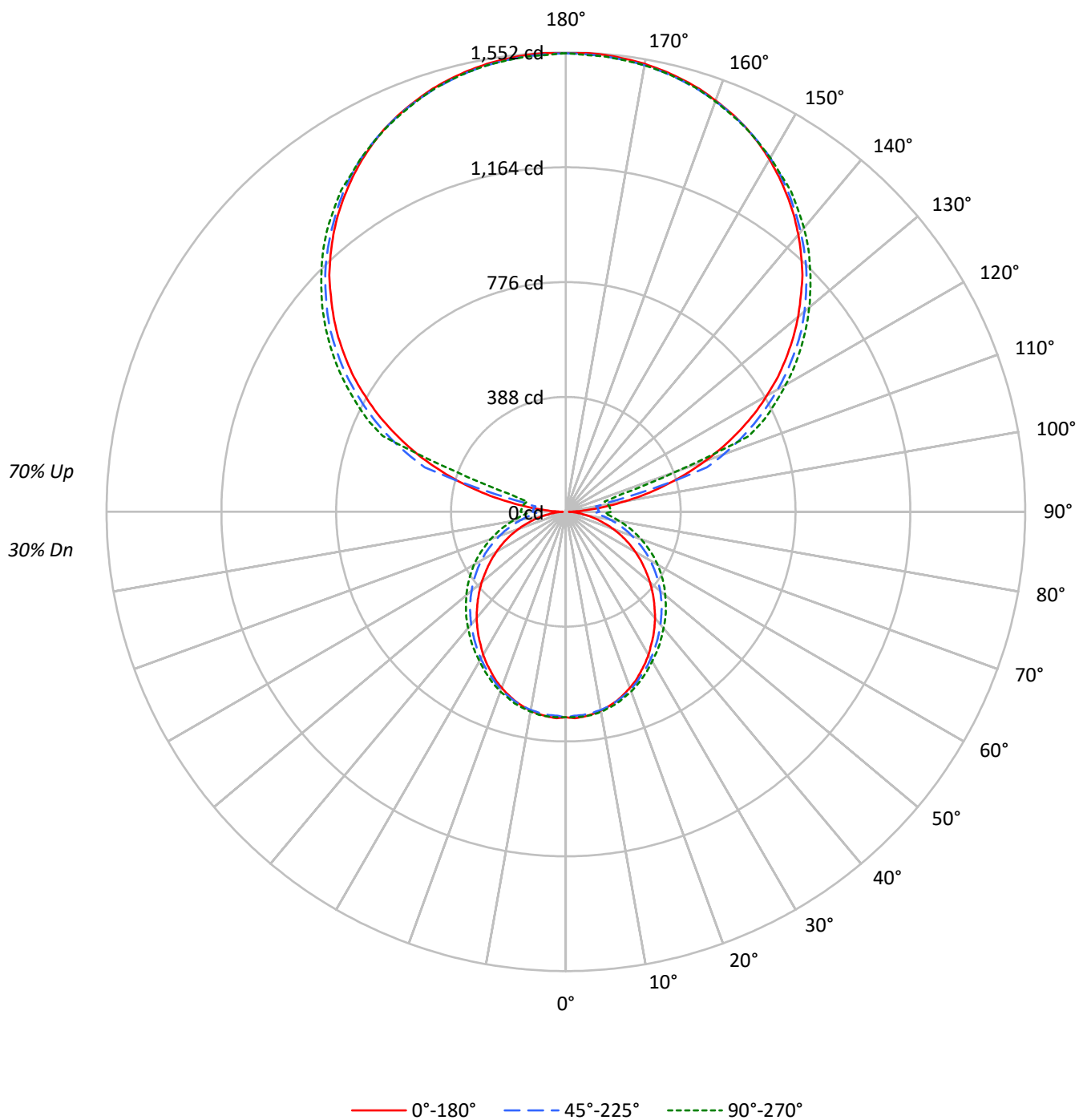
Lumens per Lamp: N/A
Luminaire Lumens: 7059.0 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 59
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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	38	38	38
1	93	88	84	81	83	79	76	73	62	60	58	47	45	44	33	32	31
2	84	77	70	65	75	69	64	59	54	51	47	41	38	36	28	27	25
3	77	67	60	54	68	60	54	49	48	43	39	36	33	30	25	23	21
4	70	59	51	45	62	53	47	41	42	37	33	32	28	26	22	20	18
5	64	52	44	39	57	47	40	35	37	32	29	28	25	22	20	18	16
6	59	47	39	33	52	42	35	30	34	28	25	25	22	19	18	16	14
7	54	42	34	29	48	38	31	26	30	25	22	23	19	17	16	14	12
8	50	38	31	25	45	34	28	23	28	23	19	21	17	15	15	13	11
9	47	35	27	22	42	31	25	21	25	20	17	19	16	13	14	11	10
10	43	32	25	20	39	29	22	18	23	18	15	18	14	12	13	10	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7472	7472	7472
5°	7492	7253	7247
10°	7423	7056	7003
15°	7325	6840	6743
20°	7184	6598	6464
25°	7013	6325	6177
30°	6838	6078	5887
35°	6641	5820	5651
40°	6452	5584	5402
45°	6243	5355	5196
50°	6038	5128	4974
55°	5809	4895	4769
60°	5586	4657	4558
65°	5357	4403	4313
70°	5009	4120	4059
75°	4572	3795	3797
80°	4066	3466	3499
85°	3564	3200	3285

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6243 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	0.9
10°-20°	187.7	2.7
20°-30°	280.7	4.0
30°-40°	335.2	4.7
40°-50°	350.7	5.0
50°-60°	329.1	4.7
60°-70°	274.9	3.9
70°-80°	196.5	2.8
80°-90°	120.1	1.7
90°-100°	128.1	1.8
100°-110°	318.2	4.5
110°-120°	683.3	9.7
120°-130°	842.3	11.9
130°-140°	887.0	12.6
140°-150°	822.8	11.7
150°-160°	662.1	9.4
160°-170°	427.3	6.1
170°-180°	147.2	2.1
0°-30°	534.3	7.6
0°-40°	869.5	12.3
0°-60°	1549.3	21.9
0°-90°	2140.7	30.3
90°-120°	1129.6	16.0
90°-150°	3681.7	52.2
90°-180°	4918.0	69.7
0°-180°	7059.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	694	694	694	694	694	
5°	695	693	689	695	694	66
15°	662	664	663	671	670	186
25°	597	605	607	617	617	275
35°	514	526	536	548	550	322
45°	420	439	458	472	478	324
55°	321	346	373	393	399	287
65°	222	251	284	307	315	219
75°	120	156	194	218	228	128
85°	37	75	115	141	148	38
90°	11	60	113	143	153	11
95°	78	61	111	142	150	90
105°	349	380	309	126	135	370
115°	647	663	701	730	741	639
125°	909	918	945	963	971	813
135°	1131	1137	1150	1167	1167	870
145°	1304	1311	1313	1322	1325	816
155°	1435	1433	1434	1440	1433	661
165°	1514	1510	1509	1518	1510	428
175°	1549	1544	1545	1553	1544	147
180°	1549	1549	1549	1549	1549	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	694.2	694.2	694.2	694.2	694.2
2.5°	698.0	695.7	689.6	695.7	694.9
5°	694.9	693.4	688.9	694.9	694.2
7.5°	689.6	689.6	685.1	692.7	691.9
10°	682.1	683.6	679.8	687.4	685.9
12.5°	673.0	675.3	673.0	679.8	678.3
15°	661.7	663.9	663.2	670.7	670.0
17.5°	648.1	652.6	651.8	658.6	657.1
20°	632.9	637.5	639.0	645.8	646.5
22.5°	617.1	621.6	623.9	632.9	632.2
25°	597.4	605.0	607.2	617.1	617.1
27.5°	578.5	586.8	591.3	599.7	600.4
30°	558.1	567.9	573.9	583.0	583.0
32.5°	535.4	546.7	555.0	564.9	567.1
35°	514.2	526.3	536.1	547.5	550.5
37.5°	491.5	505.1	516.5	529.3	531.6
40°	468.8	482.4	497.6	510.4	513.5
42.5°	443.9	461.3	477.2	491.5	496.1
45°	420.4	438.6	457.5	471.9	477.9
47.5°	395.5	415.9	437.1	453.0	457.5
50°	371.3	392.5	415.9	433.3	438.6
52.5°	345.6	368.3	394.7	412.9	419.7
55°	320.6	345.6	372.8	393.2	399.3
57.5°	296.4	322.1	351.6	372.0	378.9
60°	270.7	297.9	328.9	350.1	358.4
62.5°	246.5	274.5	307.8	328.9	336.5
65°	221.6	251.1	284.3	307.0	314.6
67.5°	196.6	227.6	260.9	285.8	291.9
70°	170.1	202.7	239.0	263.2	270.7
72.5°	145.9	178.5	216.3	241.2	248.8
75°	120.2	155.8	193.6	218.5	227.6
77.5°	98.3	133.8	171.7	198.1	204.9
80°	74.9	111.9	151.2	176.9	184.5
82.5°	54.4	92.3	132.3	158.0	165.6
85°	37.1	74.9	114.9	140.7	148.2
87.5°	22.7	60.5	99.1	124.8	132.3
90°	11.0	59.6	113.0	143.4	153.2
92.5°	35.6	61.2	109.3	142.4	150.3
95°	78.5	60.8	110.6	142.0	149.6
97.5°	135.4	130.3	107.1	139.0	147.8
100°	201.3	248.5	103.8	134.9	143.6
102.5°	276.5	312.6	146.5	129.6	139.5
105°	349.0	379.9	308.8	126.2	135.3
107.5°	425.4	451.7	499.9	343.1	199.1
110°	501.7	524.5	567.5	549.2	390.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	575.4	594.0	635.5	664.8	669.3
115°	647.2	663.2	700.8	730.4	741.1
117.5°	718.6	732.6	764.1	791.5	798.6
120°	783.4	797.5	826.0	852.6	857.8
122.5°	850.1	859.7	887.8	910.1	916.6
125°	909.3	918.5	945.0	963.2	970.8
127.5°	969.1	977.5	1002.2	1020.7	1023.7
130°	1024.4	1032.8	1052.5	1071.5	1073.7
132.5°	1076.5	1085.7	1100.6	1118.8	1120.6
135°	1130.6	1136.8	1149.7	1166.8	1167.1
137.5°	1176.6	1185.2	1192.7	1210.5	1212.0
140°	1222.0	1228.9	1234.5	1250.5	1251.9
142.5°	1264.6	1270.7	1274.1	1287.4	1287.7
145°	1303.7	1311.0	1313.3	1321.6	1324.7
147.5°	1340.9	1346.6	1348.9	1353.5	1350.8
150°	1375.4	1378.9	1381.2	1383.5	1381.5
152.5°	1406.5	1407.6	1408.8	1413.4	1407.6
155°	1435.3	1433.0	1434.1	1439.9	1433.0
157.5°	1458.3	1458.3	1457.1	1464.0	1454.8
160°	1479.0	1477.9	1476.7	1483.6	1475.6
162.5°	1498.6	1495.1	1494.0	1502.0	1495.1
165°	1513.5	1510.1	1508.9	1518.1	1510.1
167.5°	1526.2	1521.6	1521.6	1530.8	1521.6
170°	1536.6	1531.9	1531.9	1541.2	1531.9
172.5°	1543.5	1537.7	1538.9	1548.1	1537.7
175°	1549.2	1543.5	1544.6	1552.7	1543.5
177.5°	1551.5	1545.8	1546.9	1556.1	1544.6
180°	1549.2	1549.2	1549.2	1549.2	1549.2

(END OF REPORT)