

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: P1011726

Luminaire Tested: S123DIP-B560D1195UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011726
REPORT IS A COMBINATION OF REPORTS P989984 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D1195UB27-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

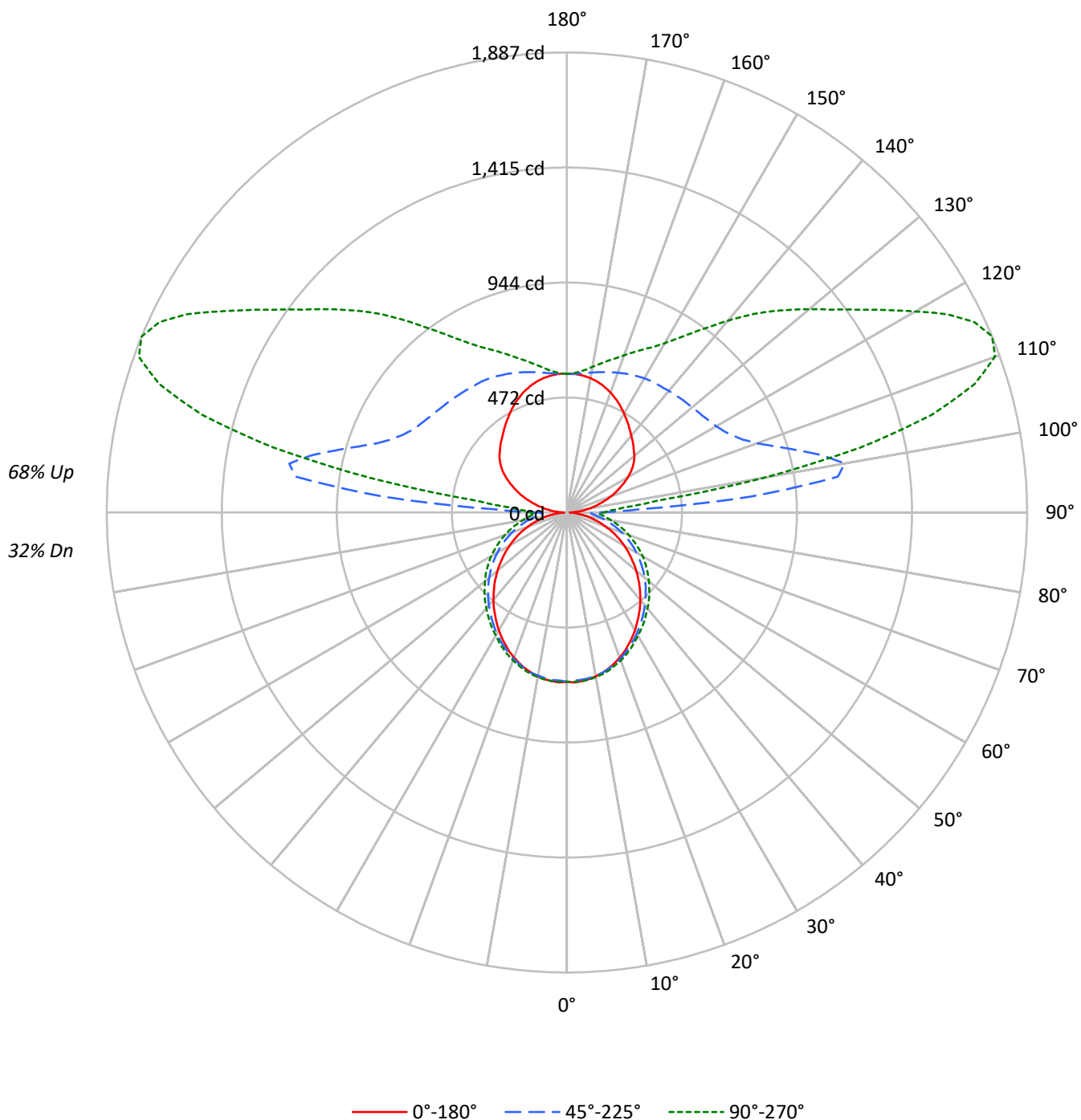
Lumens per Lamp: N/A
Luminaire Lumens: 6624.0 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40
1	93	89	85	81	84	80	76	73	63	61	59	48	47	45	34	33	32
2	84	77	71	65	76	69	64	60	55	51	48	42	39	37	30	28	27
3	77	67	60	54	69	61	54	49	48	44	40	37	34	31	26	24	22
4	70	59	52	45	63	54	47	42	43	38	34	33	29	26	23	21	19
5	64	53	45	39	57	48	41	35	38	33	29	29	25	23	21	18	16
6	59	47	39	33	53	43	36	31	34	29	25	26	22	20	19	16	14
7	54	42	34	29	49	38	31	27	31	26	22	24	20	17	17	15	13
8	50	38	31	25	45	35	28	23	28	23	19	22	18	15	16	13	11
9	47	35	27	22	42	32	25	21	26	21	17	20	16	14	14	12	10
10	44	32	25	20	39	29	23	18	23	19	15	18	15	12	13	11	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	1.0
10°-20°	187.7	2.8
20°-30°	280.7	4.2
30°-40°	335.2	5.1
40°-50°	350.7	5.3
50°-60°	329.1	5.0
60°-70°	274.9	4.1
70°-80°	196.5	3.0
80°-90°	120.1	1.8
90°-100°	396.7	6.0
100°-110°	957.3	14.5
110°-120°	916.9	13.8
120°-130°	721.9	10.9
130°-140°	562.9	8.5
140°-150°	415.0	6.3
150°-160°	288.2	4.4
160°-170°	169.3	2.6
170°-180°	55.1	0.8
0°-30°	534.3	8.1
0°-40°	869.5	13.1
0°-60°	1549.3	23.4
0°-90°	2140.8	32.3
90°-120°	2270.9	34.3
90°-150°	3970.6	59.9
90°-180°	4483.0	67.7
0°-180°	6624.0	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°	12	61	114	143	152	10
95°	47	165	758	297	239	48
105°	140	222	982	1697	1549	148
115°	240	307	748	1611	1845	238
125°	330	390	685	1237	1450	294
135°	386	460	661	1009	1165	298
145°	439	502	644	815	899	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°	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°	12.1	60.8	114.2	143.4	152.1
92.5°	26.4	110.6	293.5	177.5	172.2
95°	47.4	165.0	757.6	297.4	239.4
97.5°	69.8	180.4	1120.2	593.8	374.6
100°	92.0	191.6	1156.0	1135.3	817.1
102.5°	115.4	205.0	1076.7	1485.2	1233.2
105°	139.5	221.6	982.3	1696.6	1549.1
107.5°	164.2	241.7	898.3	1786.2	1753.3
110°	191.0	262.2	828.9	1784.6	1867.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	216.3	284.0	780.7	1714.2	1887.4
115°	239.8	307.0	748.1	1610.6	1845.2
117.5°	264.0	328.1	723.9	1500.2	1760.1
120°	288.5	349.3	707.6	1395.6	1648.8
122.5°	310.4	370.0	695.7	1312.1	1545.3
125°	330.4	389.7	685.0	1237.4	1449.9
127.5°	346.5	409.6	677.7	1175.2	1367.0
130°	361.5	428.0	670.5	1117.8	1297.2
132.5°	372.2	444.8	665.6	1063.8	1230.2
135°	386.0	459.6	660.7	1008.7	1165.1
137.5°	398.7	472.2	655.3	955.8	1097.1
140°	410.6	483.7	651.1	904.8	1026.6
142.5°	424.5	493.3	645.8	857.1	959.9
145°	439.4	502.5	643.5	814.7	899.0
147.5°	453.6	512.3	640.1	781.1	846.8
150°	468.5	520.4	635.5	752.3	801.6
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)