

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: P1011743

Luminaire Tested: S123DIP-B560D1195UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011743
REPORT IS A COMBINATION OF REPORTS P990016 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D1195UB35-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

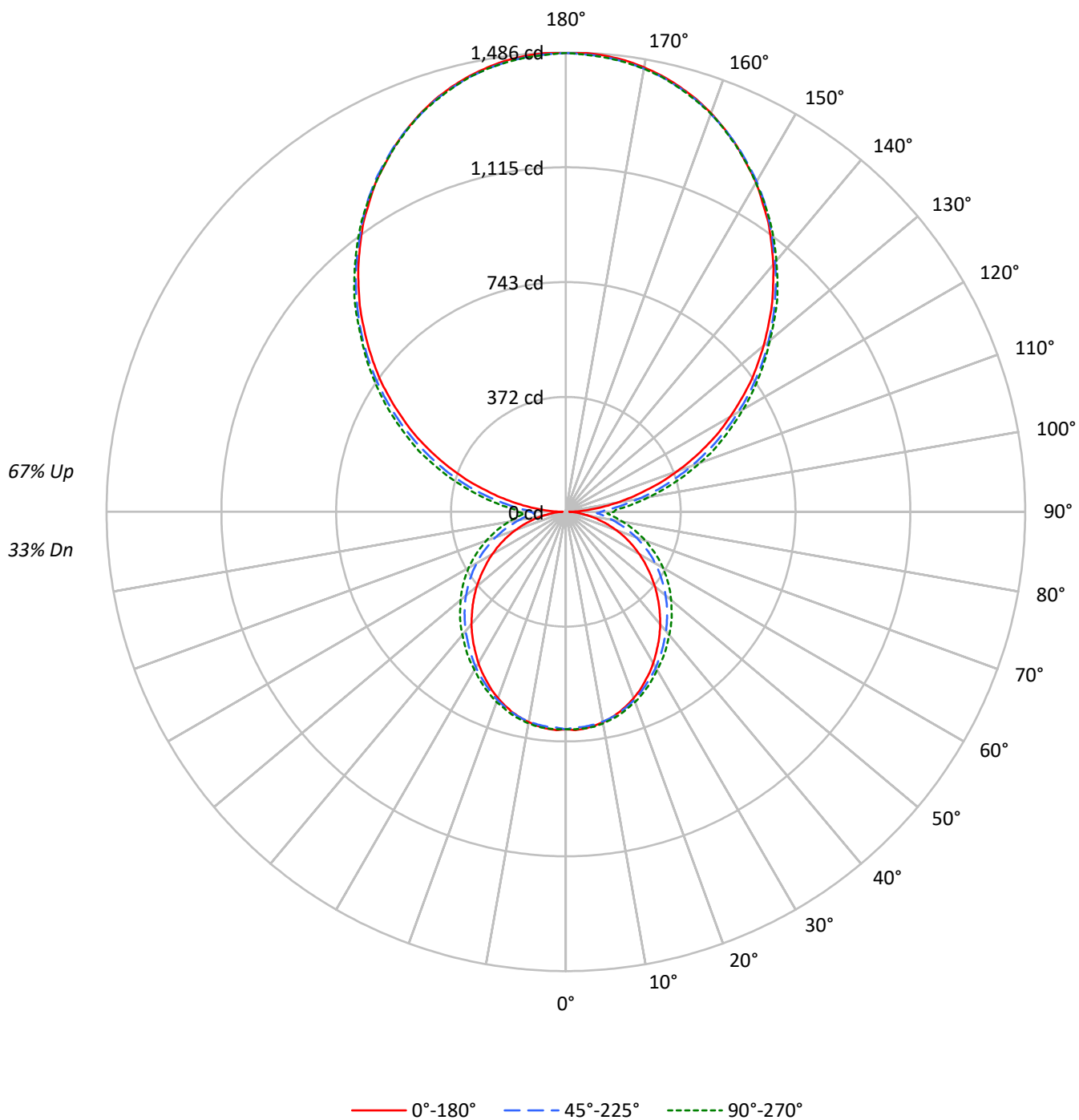
Lumens per Lamp: N/A
Luminaire Lumens: 6480.0 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 59
Input Voltage (V):
Input Current (A_{in}): 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
RCR																	
0	103	103	103	103	93	93	93	93	74	74	74		57	57	57		41
1	93	89	85	81	84	80	77	74	64	61	59		49	47	46		35
2	85	77	71	66	76	70	64	60	55	52	48		42	40	38		30
3	77	68	60	54	69	61	55	50	49	44	40		37	34	32		27
4	70	60	52	46	63	54	47	42	43	38	34		33	30	27		24
5	64	53	45	39	58	48	41	36	38	33	29		30	26	23		21
6	59	47	39	33	53	43	36	31	34	29	25		27	23	20		19
7	55	42	35	29	49	39	32	27	31	26	22		24	20	18		18
8	51	38	31	25	45	35	28	23	28	23	19		22	18	16		16
9	47	35	28	23	42	32	25	21	26	21	17		20	16	14		15
10	44	32	25	20	39	29	23	19	24	19	15		19	15	12		14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7571	7571	7571
5°	7592	7349	7343
10°	7521	7150	7096
15°	7422	6930	6833
20°	7280	6686	6550
25°	7106	6410	6259
30°	6929	6160	5965
35°	6728	5898	5726
40°	6539	5658	5474
45°	6327	5426	5266
50°	6117	5196	5039
55°	5887	4961	4832
60°	5660	4719	4619
65°	5427	4462	4371
70°	5077	4173	4113
75°	4633	3846	3847
80°	4121	3512	3546
85°	3602	3244	3329

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6327 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	1.0
10°-20°	190.2	2.9
20°-30°	284.5	4.4
30°-40°	339.6	5.2
40°-50°	355.4	5.5
50°-60°	333.5	5.1
60°-70°	278.5	4.3
70°-80°	199.2	3.1
80°-90°	121.6	1.9
90°-100°	170.0	2.6
100°-110°	344.0	5.3
110°-120°	528.9	8.2
120°-130°	668.6	10.3
130°-140°	737.4	11.4
140°-150°	717.7	11.1
150°-160°	602.6	9.3
160°-170°	401.2	6.2
170°-180°	140.5	2.2
0°-30°	541.4	8.4
0°-40°	881.0	13.6
0°-60°	1569.9	24.2
0°-90°	2169.2	33.5
90°-120°	1042.9	16.1
90°-150°	3166.6	48.9
90°-180°	4311.0	66.5
0°-180°	6480.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	703	703	703	703	703	
5°	704	703	698	704	703	67
15°	670	673	672	680	679	189
25°	605	613	615	625	625	279
35°	521	533	543	555	558	326
45°	426	444	464	478	484	329
55°	325	350	378	398	405	291
65°	224	254	288	311	319	222
75°	122	158	196	221	231	130
85°	38	76	116	142	150	39
90°	11	60	115	145	155	12
95°	77	115	162	190	198	82
105°	268	289	333	354	363	287
115°	499	512	537	557	562	494
125°	728	731	751	762	763	649
135°	942	949	956	965	967	726
145°	1142	1144	1147	1152	1151	713
155°	1307	1307	1308	1313	1305	602
165°	1424	1420	1420	1427	1419	402
175°	1481	1476	1476	1483	1475	141
180°	1484	1484	1484	1484	1484	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	703.4	703.4	703.4	703.4	703.4
2.5°	707.2	704.9	698.8	704.9	704.2
5°	704.2	702.6	698.0	704.2	703.4
7.5°	698.8	698.8	694.2	701.9	701.1
10°	691.1	692.7	688.8	696.5	695.0
12.5°	682.0	684.3	682.0	688.8	687.3
15°	670.5	672.8	672.0	679.7	678.9
17.5°	656.7	661.3	660.5	667.4	665.9
20°	641.3	645.9	647.5	654.4	655.1
22.5°	625.3	629.8	632.1	641.3	640.6
25°	605.3	613.0	615.3	625.3	625.3
27.5°	586.2	594.6	599.2	607.6	608.4
30°	565.5	575.4	581.6	590.8	590.8
32.5°	542.5	554.0	562.4	572.4	574.7
35°	521.0	533.3	543.3	554.8	557.8
37.5°	498.1	511.8	523.3	536.4	538.7
40°	475.1	488.9	504.2	517.2	520.3
42.5°	449.8	467.4	483.5	498.1	502.7
45°	426.0	444.4	463.6	478.1	484.3
47.5°	400.7	421.4	442.9	459.0	463.6
50°	376.2	397.7	421.4	439.1	444.4
52.5°	350.2	373.2	400.0	418.4	425.3
55°	324.9	350.2	377.8	398.4	404.6
57.5°	300.4	326.4	356.3	377.0	383.9
60°	274.3	301.9	333.3	354.8	363.2
62.5°	249.8	278.1	311.9	333.3	341.0
65°	224.5	254.4	288.1	311.1	318.8
67.5°	199.2	230.6	264.4	289.6	295.8
70°	172.4	205.4	242.1	266.7	274.3
72.5°	147.9	180.8	219.1	244.4	252.1
75°	121.8	157.8	196.2	221.4	230.6
77.5°	99.6	135.6	173.9	200.8	207.7
80°	75.9	113.4	153.2	179.3	187.0
82.5°	55.2	93.5	134.1	160.1	167.8
85°	37.5	75.9	116.5	142.5	150.2
87.5°	23.0	61.3	100.4	126.4	134.1
90°	11.2	60.3	114.6	145.2	155.3
92.5°	44.2	84.1	129.5	158.2	162.7
95°	77.2	115.3	162.2	190.5	198.2
97.5°	120.8	154.1	197.2	226.0	232.5
100°	165.5	197.0	238.1	263.8	273.7
102.5°	217.2	242.1	284.8	309.7	316.2
105°	268.5	289.2	332.7	354.1	363.3
107.5°	328.4	345.7	381.7	405.9	411.7
110°	383.6	399.7	432.6	457.3	461.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	441.9	453.7	482.8	507.9	514.8
115°	499.4	512.1	537.3	556.9	561.8
117.5°	558.8	566.2	589.9	608.3	610.9
120°	612.9	623.7	643.2	659.6	662.7
122.5°	670.1	676.2	697.7	711.0	712.9
125°	727.6	731.1	750.9	762.4	763.1
127.5°	781.2	787.4	804.3	812.6	813.3
130°	834.8	843.4	855.3	865.1	861.5
132.5°	887.7	897.0	906.2	914.1	913.7
135°	942.5	948.8	956.0	965.1	966.6
137.5°	992.6	997.8	1006.5	1013.0	1013.3
140°	1044.4	1050.2	1053.7	1064.0	1059.7
142.5°	1092.2	1097.2	1099.6	1108.4	1106.4
145°	1142.3	1143.9	1147.4	1152.3	1150.7
147.5°	1184.7	1189.3	1192.8	1195.1	1191.2
150°	1230.2	1232.5	1234.8	1234.8	1229.3
152.5°	1267.5	1271.0	1272.1	1274.5	1268.6
155°	1307.1	1307.1	1308.3	1312.9	1304.8
157.5°	1340.9	1339.8	1340.9	1345.6	1338.6
160°	1372.4	1370.1	1370.1	1375.9	1371.2
162.5°	1400.4	1396.9	1398.1	1403.9	1395.7
165°	1423.7	1420.2	1420.2	1427.2	1419.1
167.5°	1443.5	1438.9	1440.0	1447.0	1440.0
170°	1459.9	1455.2	1455.2	1463.4	1455.2
172.5°	1472.7	1468.0	1468.0	1475.0	1466.9
175°	1480.9	1476.2	1476.2	1483.2	1475.0
177.5°	1485.5	1480.9	1480.9	1487.8	1479.7
180°	1484.3	1484.3	1484.3	1484.3	1484.3

(END OF REPORT)