

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: P1011736

Luminaire Tested: S123DIP-B560D1195UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011736
REPORT IS A COMBINATION OF REPORTS P990009 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D1195UB30-4F0-XX-W2A-F
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

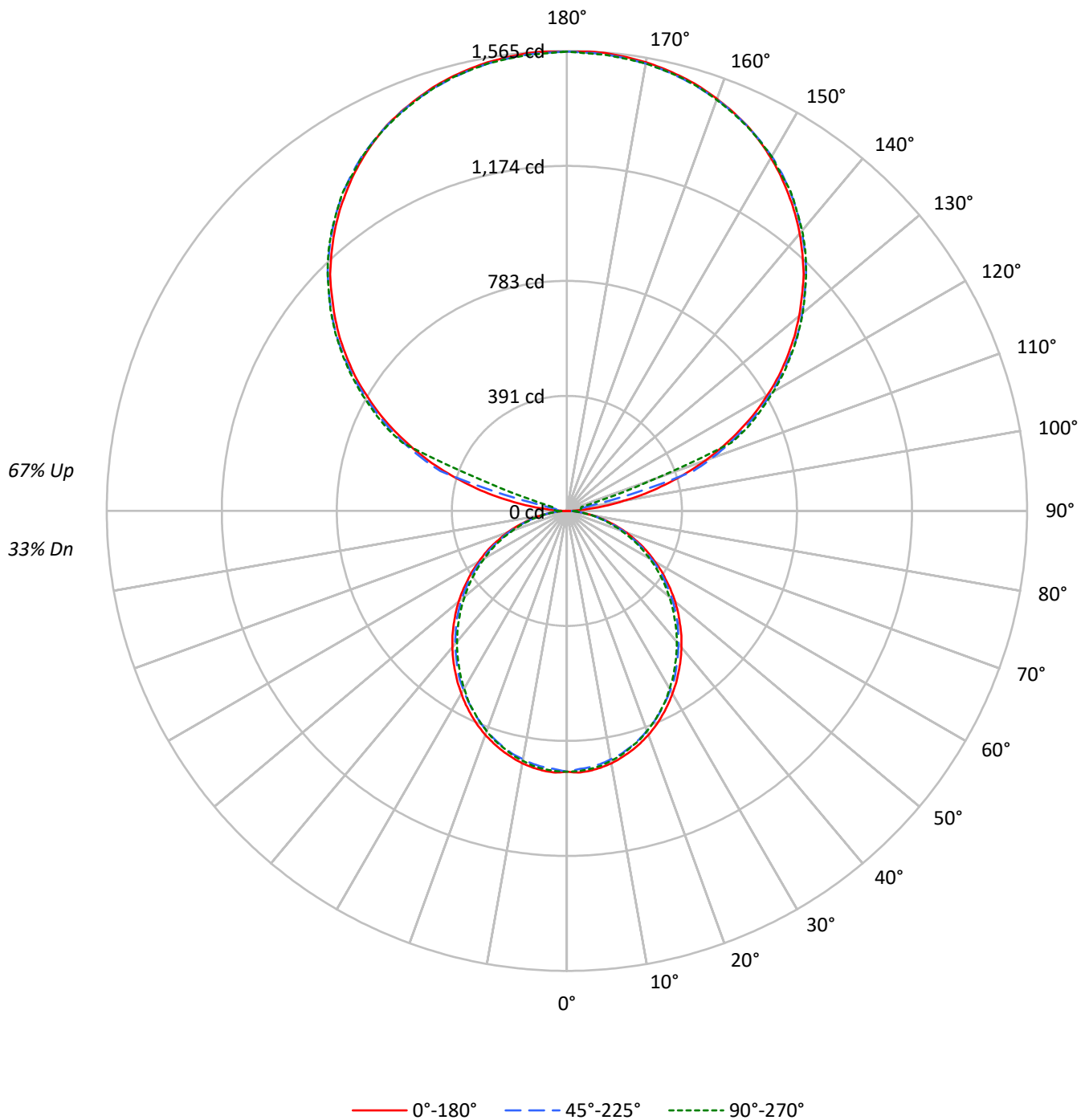
Lumens per Lamp: N/A
Luminaire Lumens: 7076.0 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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					0
RW	70	50	30	10	70	50	30	10	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	40	40	33
1	94	90	86	82	84	81	78	75	64	62	60	49	48	47	35	35	34	34	34	27
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	30	28	28	28	23
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	28	26	24	24	24	19
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21	21	21	17
5	65	54	46	40	58	49	42	37	39	34	31	30	27	24	22	20	18	18	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	18	16	16	16	13
7	55	43	36	30	50	39	33	28	32	27	23	25	21	19	18	16	14	14	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	13	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	15	13	11	11	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	10	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9550	9550	9550
5°	9574	9221	9207
10°	9488	8908	8817
15°	9356	8584	8392
20°	9205	8223	7971
25°	9009	7843	7521
30°	8795	7450	7048
35°	8571	7048	6578
40°	8336	6626	6115
45°	8078	6214	5632
50°	7815	5757	5147
55°	7478	5279	4656
60°	7131	4753	4133
65°	6805	4183	3588
70°	6334	3551	2951
75°	5660	2811	2291
80°	4886	1976	1620
85°	3813	1061	811

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8078 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.6	1.2
10°-20°	236.2	3.3
20°-30°	348.8	4.9
30°-40°	407.4	5.8
40°-50°	409.5	5.8
50°-60°	359.8	5.1
60°-70°	267.9	3.8
70°-80°	152.5	2.2
80°-90°	46.5	0.7
90°-100°	55.1	0.8
100°-110°	266.4	3.8
110°-120°	652.9	9.2
120°-130°	828.8	11.7
130°-140°	885.4	12.5
140°-150°	827.9	11.7
150°-160°	667.8	9.4
160°-170°	431.0	6.1
170°-180°	148.5	2.1
0°-30°	668.6	9.4
0°-40°	1076.0	15.2
0°-60°	1845.2	26.1
0°-90°	2312.1	32.7
90°-120°	974.4	13.8
90°-150°	3516.6	49.7
90°-180°	4764.0	67.3
0°-180°	7076.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	887	887	887	887	887	
5°	888	884	876	883	882	84
15°	845	842	832	838	834	238
25°	767	763	753	754	751	354
35°	664	659	649	645	641	415
45°	544	541	531	522	518	420
55°	413	412	402	394	390	370
65°	282	278	270	264	262	278
75°	149	146	143	140	137	159
85°	40	38	38	37	37	43
90°	1	13	28	32	35	7
95°	71	23	36	44	44	85
105°	346	359	254	49	51	367
115°	649	656	666	678	683	641
125°	915	924	929	931	933	817
135°	1139	1146	1150	1154	1150	877
145°	1314	1322	1325	1327	1327	823
155°	1448	1445	1447	1452	1445	667
165°	1527	1523	1522	1531	1523	431
175°	1563	1557	1558	1566	1557	149
180°	1563	1563	1563	1563	1563	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	887.2	887.2	887.2	887.2	887.2
2.5°	891.0	888.0	879.6	887.2	886.4
5°	888.0	884.2	875.8	883.4	881.9
7.5°	881.1	877.3	868.9	875.8	875.0
10°	871.9	868.1	858.2	865.1	863.6
12.5°	859.7	856.7	847.5	852.1	851.4
15°	845.2	842.2	832.3	838.4	833.8
17.5°	829.2	825.4	815.5	820.1	818.5
20°	810.9	806.3	796.4	799.5	797.2
22.5°	790.3	785.7	775.8	778.1	775.1
25°	767.4	762.9	752.9	753.7	751.4
27.5°	743.8	739.2	728.5	729.3	727.0
30°	717.8	714.0	703.4	703.4	698.0
32.5°	691.9	686.6	678.9	673.6	671.3
35°	663.7	659.1	649.2	644.6	640.8
37.5°	635.5	629.4	619.4	614.1	611.8
40°	605.7	601.1	590.5	584.3	581.3
42.5°	576.0	570.6	559.9	553.8	550.8
45°	543.9	540.9	530.9	521.8	518.0
47.5°	512.6	508.1	498.9	489.8	486.7
50°	480.6	476.8	466.9	458.5	453.9
52.5°	447.0	444.7	434.1	427.2	422.6
55°	412.7	411.9	402.0	393.6	389.8
57.5°	380.7	377.6	370.0	362.4	357.8
60°	345.6	344.8	335.7	328.8	325.0
62.5°	314.3	312.0	302.9	296.0	293.7
65°	281.5	277.7	270.1	263.9	261.7
67.5°	246.4	243.4	237.2	231.9	228.9
70°	215.1	210.5	206.0	200.6	196.8
72.5°	182.3	179.3	173.9	169.4	167.8
75°	148.8	145.7	143.4	139.6	137.3
77.5°	119.0	117.5	114.4	111.4	111.4
80°	90.0	87.7	86.2	85.4	85.4
82.5°	61.8	61.8	61.8	60.3	59.5
85°	39.7	38.1	38.1	36.6	36.6
87.5°	19.8	17.5	16.8	16.0	16.0
90°	1.2	12.8	27.9	32.5	34.8
92.5°	26.7	19.7	30.2	38.3	39.5
95°	70.8	23.2	36.0	44.1	44.1
97.5°	128.9	96.4	37.2	46.4	47.6
100°	196.2	219.4	38.3	47.6	48.8
102.5°	272.8	287.9	85.9	47.6	49.9
105°	346.0	358.7	254.3	48.8	51.1
107.5°	423.8	434.2	451.6	272.8	120.7
110°	501.5	510.8	523.6	485.3	319.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	575.8	584.0	596.7	607.2	604.9
115°	649.0	655.9	666.4	678.0	682.6
117.5°	721.0	729.1	734.9	744.2	745.3
120°	787.1	797.6	801.1	810.4	810.4
122.5°	854.5	862.6	867.2	873.0	874.2
125°	914.8	924.1	928.8	931.1	933.4
127.5°	975.2	984.5	990.3	993.8	991.5
130°	1030.9	1040.2	1044.9	1049.5	1047.2
132.5°	1084.3	1093.6	1097.1	1101.8	1098.3
135°	1138.9	1145.9	1150.5	1154.0	1150.5
137.5°	1185.3	1194.6	1197.0	1202.8	1200.4
140°	1231.8	1238.7	1242.2	1246.9	1244.5
142.5°	1274.7	1281.7	1285.2	1288.7	1285.2
145°	1314.2	1322.3	1324.7	1327.0	1327.0
147.5°	1352.5	1358.3	1360.6	1363.0	1357.2
150°	1387.3	1390.8	1393.2	1395.5	1392.0
152.5°	1418.7	1419.9	1421.0	1425.7	1419.9
155°	1447.7	1445.4	1446.6	1452.4	1445.4
157.5°	1470.9	1470.9	1469.8	1476.7	1467.5
160°	1491.8	1490.7	1489.5	1496.5	1488.4
162.5°	1511.6	1508.1	1506.9	1515.1	1508.1
165°	1526.7	1523.2	1522.0	1531.3	1523.2
167.5°	1539.4	1534.8	1534.8	1544.1	1534.8
170°	1549.9	1545.2	1545.2	1554.5	1545.2
172.5°	1556.8	1551.0	1552.2	1561.5	1551.0
175°	1562.7	1556.8	1558.0	1566.1	1556.8
177.5°	1565.0	1559.2	1560.3	1569.6	1558.0
180°	1562.7	1562.7	1562.7	1562.7	1562.7

(END OF REPORT)