

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: P1011309

Luminaire Tested: S123DIP-B1165D1195UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011309
REPORT IS A COMBINATION OF REPORTS P989420 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1165D1195UB35-4F0-XX-W2A-F4
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

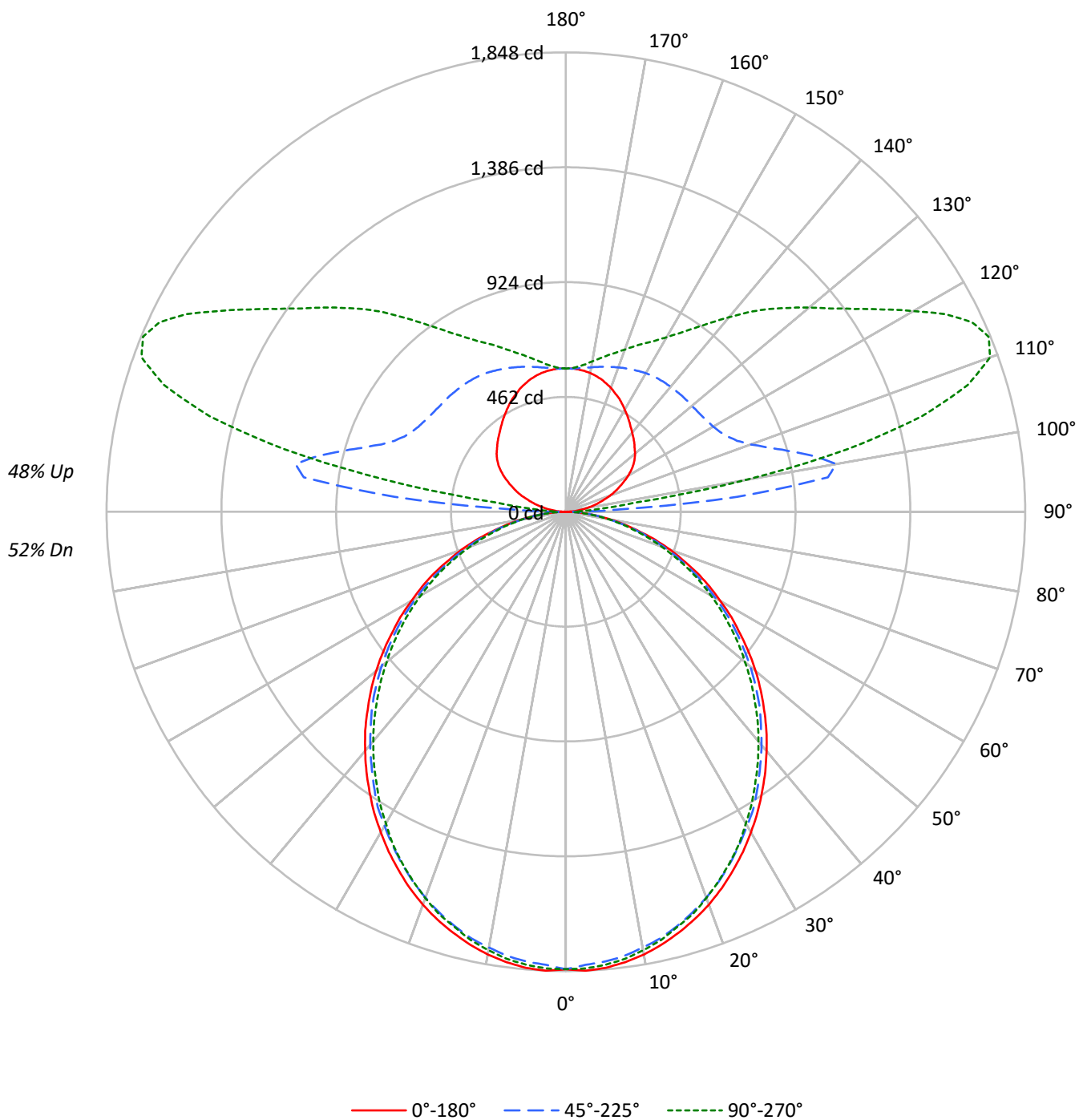
Lumens per Lamp: N/A
Luminaire Lumens: 9135.1 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 96.3
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58
1	98	94	90	86	91	87	84	81	74	72	69	62	61	59	52	50	49
2	89	82	76	71	83	76	71	66	65	61	57	55	52	49	45	43	41
3	82	72	65	59	75	67	60	55	57	52	48	48	45	42	40	37	35
4	75	64	56	50	69	59	52	47	51	45	41	43	39	36	36	33	30
5	69	57	49	43	63	53	46	40	46	40	35	39	34	31	32	29	26
6	63	51	43	37	58	48	40	35	41	35	31	35	30	27	29	26	23
7	58	46	38	32	54	43	36	31	37	31	27	32	27	24	27	23	21
8	54	42	34	29	50	39	32	27	34	28	24	29	25	21	25	21	18
9	50	38	31	26	47	36	29	24	31	26	22	27	22	19	23	19	17
10	47	35	28	23	44	33	26	22	29	23	20	25	20	17	21	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19807	19807	19807
5°	19856	19123	19094
10°	19680	18476	18287
15°	19406	17803	17406
20°	19092	17055	16532
25°	18686	16267	15600
30°	18242	15451	14618
35°	17776	14618	13643
40°	17290	13742	12683
45°	16754	12889	11681
50°	16209	11939	10675
55°	15510	10948	9656
60°	14789	9857	8571
65°	14113	8675	7440
70°	13140	7364	6120
75°	11735	5832	4751
80°	10136	4098	3361
85°	7905	2203	1682

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 16754 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.5	1.9
10°-20°	489.8	5.4
20°-30°	723.4	7.9
30°-40°	844.9	9.2
40°-50°	849.4	9.3
50°-60°	746.1	8.2
60°-70°	555.7	6.1
70°-80°	316.2	3.5
80°-90°	93.1	1.0
90°-100°	327.3	3.6
100°-110°	914.9	10.0
110°-120°	892.1	9.8
120°-130°	710.4	7.8
130°-140°	560.8	6.1
140°-150°	418.4	4.6
150°-160°	291.8	3.2
160°-170°	171.5	1.9
170°-180°	55.8	0.6
0°-30°	1386.7	15.2
0°-40°	2231.6	24.4
0°-60°	3827.2	41.9
0°-90°	4792.2	52.5
90°-120°	2134.3	23.4
90°-150°	3823.8	41.9
90°-180°	4343.0	47.5
0°-180°	9135.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1840	1840	1840	1840	1840	
5°	1842	1834	1816	1832	1829	175
15°	1753	1747	1726	1739	1729	494
25°	1592	1582	1562	1563	1558	733
35°	1376	1367	1346	1337	1329	861
45°	1128	1122	1101	1082	1074	871
55°	856	854	834	816	808	767
65°	584	576	560	547	543	576
75°	308	302	298	290	285	330
85°	82	79	79	76	76	88
90°	2	14	29	33	34	9
95°	40	129	691	202	135	42
105°	135	200	938	1639	1483	144
115°	239	298	717	1572	1804	237
125°	332	392	669	1213	1422	295
135°	389	465	660	999	1153	301
145°	444	509	652	819	901	278
155°	505	545	631	717	747	232
165°	552	567	604	641	652	155
175°	575	575	580	588	586	55
180°	576	576	576	576	576	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1840.1	1840.1	1840.1	1840.1	1840.1
2.5°	1848.0	1841.7	1824.3	1840.1	1838.5
5°	1841.7	1833.8	1816.4	1832.2	1829.0
7.5°	1827.5	1819.5	1802.1	1816.4	1814.8
10°	1808.5	1800.6	1780.0	1794.2	1791.1
12.5°	1783.2	1776.8	1757.8	1767.3	1765.7
15°	1753.1	1746.8	1726.2	1738.9	1729.4
17.5°	1719.9	1712.0	1691.4	1700.9	1697.7
20°	1681.9	1672.4	1651.8	1658.2	1653.4
22.5°	1639.2	1629.7	1609.1	1613.9	1607.5
25°	1591.7	1582.2	1561.6	1563.2	1558.5
27.5°	1542.7	1533.2	1511.0	1512.6	1507.8
30°	1488.9	1481.0	1458.8	1458.8	1447.7
32.5°	1435.1	1424.0	1408.2	1397.1	1392.3
35°	1376.5	1367.0	1346.5	1337.0	1329.1
37.5°	1318.0	1305.3	1284.8	1273.7	1268.9
40°	1256.3	1246.8	1224.6	1212.0	1205.6
42.5°	1194.6	1183.5	1161.3	1148.7	1142.4
45°	1128.1	1121.8	1101.2	1082.2	1074.3
47.5°	1063.2	1053.8	1034.8	1015.8	1009.5
50°	996.8	988.9	968.3	950.9	941.4
52.5°	927.2	922.4	900.3	886.0	876.5
55°	856.0	854.4	833.8	816.4	808.5
57.5°	789.5	783.2	767.4	751.6	742.1
60°	716.7	715.2	696.2	681.9	674.0
62.5°	651.9	647.1	628.1	613.9	609.2
65°	583.8	575.9	560.1	547.4	542.7
67.5°	511.1	504.7	492.1	481.0	474.7
70°	446.2	436.7	427.2	416.1	408.2
72.5°	378.1	371.8	360.7	351.3	348.1
75°	308.5	302.2	297.5	289.5	284.8
77.5°	246.8	243.7	237.3	231.0	231.0
80°	186.7	182.0	178.8	177.2	177.2
82.5°	128.2	128.2	128.2	125.0	123.4
85°	82.3	79.1	79.1	75.9	75.9
87.5°	41.1	36.4	34.8	33.2	33.2
90°	2.3	14.0	29.2	32.6	33.8
92.5°	17.5	70.0	216.9	74.0	61.8
95°	39.6	128.8	691.4	201.7	135.3
97.5°	63.0	147.5	1063.4	507.2	277.5
100°	86.3	162.6	1104.2	1061.1	731.1
102.5°	110.8	180.1	1028.4	1420.8	1157.9
105°	135.3	200.0	937.5	1639.4	1483.2
107.5°	160.9	223.3	857.0	1735.6	1695.4
110°	188.9	247.2	790.6	1738.5	1816.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	214.5	272.2	746.2	1672.6	1841.1
115°	239.0	298.0	717.1	1572.4	1803.8
117.5°	263.5	322.4	697.3	1465.1	1722.2
120°	289.2	346.9	684.4	1363.6	1614.9
122.5°	311.3	370.2	676.3	1283.8	1514.7
125°	332.3	392.4	669.3	1212.6	1422.5
127.5°	348.6	413.4	665.8	1154.4	1343.2
130°	363.8	432.0	662.3	1100.8	1278.0
132.5°	375.5	449.0	661.1	1050.6	1213.8
135°	389.4	464.6	660.0	998.7	1153.2
137.5°	402.3	477.5	657.6	949.8	1089.1
140°	415.1	489.2	656.5	901.9	1021.4
142.5°	429.1	499.6	654.1	858.2	958.5
145°	444.3	509.0	651.8	819.1	901.3
147.5°	459.4	518.8	648.3	788.8	852.4
150°	474.6	527.0	643.6	762.0	810.4
152.5°	489.7	535.8	637.8	738.6	775.4
155°	504.9	544.6	630.8	717.1	747.4
157.5°	516.5	552.1	625.0	696.1	720.6
160°	530.5	558.6	618.0	676.9	694.9
162.5°	541.0	563.2	611.0	658.8	671.6
165°	551.5	567.2	604.0	640.7	651.8
167.5°	559.7	570.8	597.0	625.0	632.0
170°	566.7	572.5	590.0	611.0	614.5
172.5°	571.3	574.2	584.2	598.8	598.2
175°	574.8	575.4	579.5	587.7	586.5
177.5°	577.2	576.0	576.0	580.7	578.3
180°	576.0	576.0	576.0	576.0	576.0

(END OF REPORT)