

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: P1011099

Luminaire Tested: S123DIP-B1000D1195UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011099
REPORT IS A COMBINATION OF REPORTS P989129 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D1195UB40-4F0-XX-W2A-F4
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

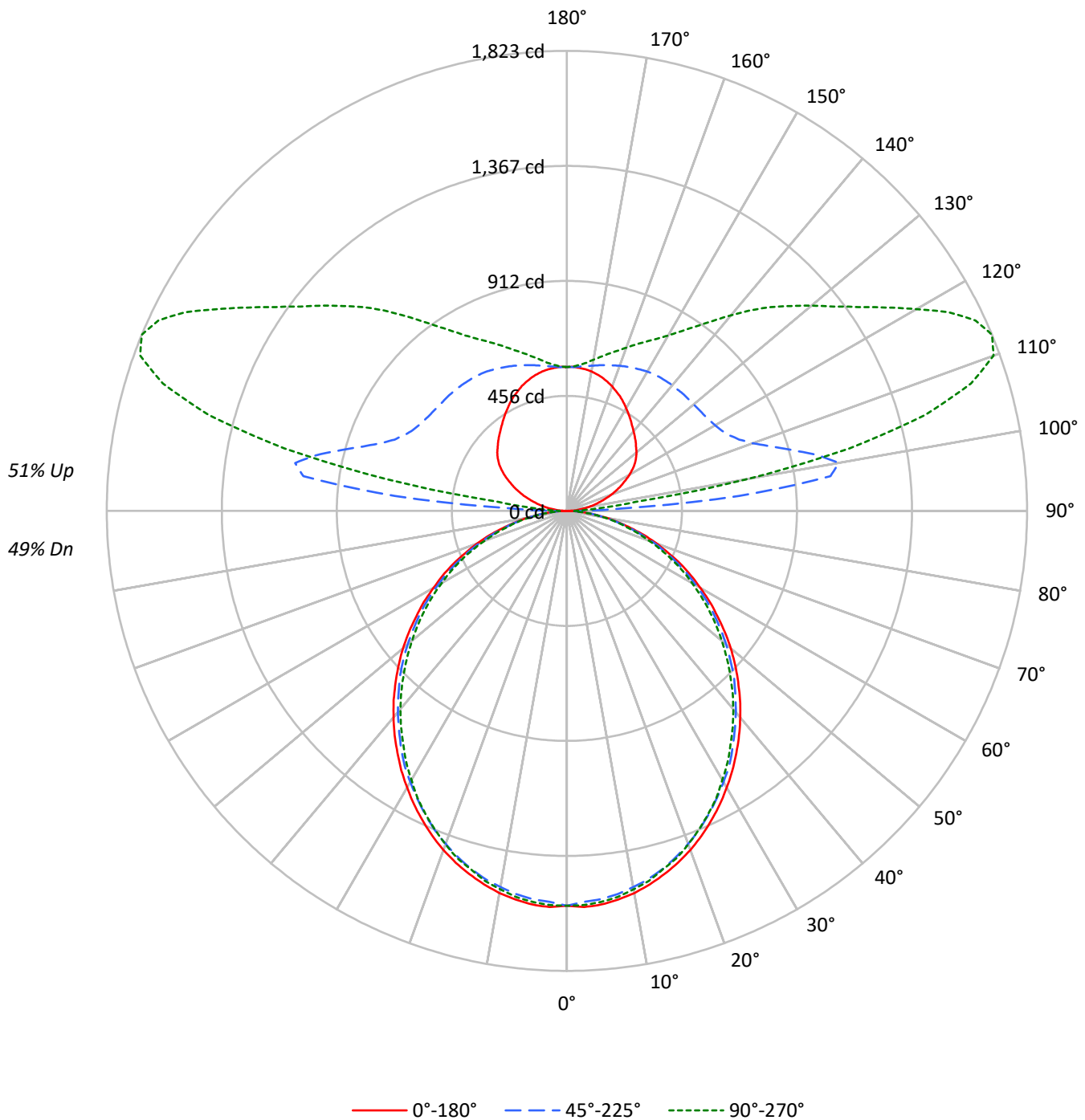
Lumens per Lamp: N/A
Luminaire Lumens: 8375.0 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 81.8
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
RCR																	
0	107	107	107	107	98	98	98	98	83	83	83		68	68	68		55
1	97	93	89	86	90	86	83	79	72	70	68		60	58	57		48
2	89	81	75	70	81	75	70	65	63	59	56		53	50	47		43
3	81	71	64	58	74	66	60	54	56	51	47		46	43	40		38
4	74	63	55	49	68	58	51	46	50	44	40		41	37	34		34
5	68	56	48	42	62	52	45	40	44	39	35		37	33	30		30
6	63	50	42	36	57	47	40	34	40	34	30		34	29	26		28
7	58	46	38	32	53	42	35	30	36	31	26		30	26	23		25
8	54	41	34	28	49	38	31	27	33	27	24		28	24	20		23
9	50	38	30	25	46	35	28	24	30	25	21		26	21	18		21
10	47	35	27	23	43	32	26	21	28	23	19		24	20	17		20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16841	16841	16841
5°	16884	16260	16236
10°	16733	15710	15549
15°	16500	15138	14799
20°	16234	14502	14058
25°	15889	13832	13264
30°	15511	13138	12430
35°	15115	12429	11601
40°	14701	11685	10784
45°	14245	10959	9933
50°	13783	10151	9078
55°	13187	9310	8211
60°	12575	8380	7288
65°	12000	7375	6326
70°	11173	6261	5204
75°	9978	4958	4041
80°	8616	3484	2858
85°	6724	1874	1432

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14245 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.5	1.8
10°-20°	416.5	5.0
20°-30°	615.1	7.3
30°-40°	718.4	8.6
40°-50°	722.2	8.6
50°-60°	634.4	7.6
60°-70°	472.5	5.6
70°-80°	268.9	3.2
80°-90°	79.6	1.0
90°-100°	324.1	3.9
100°-110°	905.8	10.8
110°-120°	883.3	10.5
120°-130°	703.3	8.4
130°-140°	555.2	6.6
140°-150°	414.2	4.9
150°-160°	289.0	3.5
160°-170°	169.8	2.0
170°-180°	55.2	0.7
0°-30°	1179.1	14.1
0°-40°	1897.5	22.7
0°-60°	3254.2	38.9
0°-90°	4075.2	48.7
90°-120°	2113.2	25.2
90°-150°	3785.9	45.2
90°-180°	4300.0	51.3
0°-180°	8375.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1565	1565	1565	1565	1565	
5°	1566	1559	1544	1558	1555	149
15°	1491	1485	1468	1478	1470	420
25°	1353	1345	1328	1329	1325	623
35°	1170	1162	1145	1137	1130	732
45°	959	954	936	920	914	741
55°	728	726	709	694	688	652
65°	496	490	476	466	461	490
75°	262	257	253	246	242	280
85°	70	67	67	65	65	75
90°	2	14	29	32	34	8
95°	39	128	685	200	134	42
105°	134	198	928	1623	1468	142
115°	237	295	710	1557	1786	234
125°	329	388	663	1201	1408	292
135°	386	460	653	989	1142	298
145°	440	504	645	811	892	276
155°	500	539	625	710	740	230
165°	546	562	598	634	645	154
175°	569	570	574	582	581	54
180°	570	570	570	570	570	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1564.6	1564.6	1564.6	1564.6	1564.6
2.5°	1571.3	1566.0	1551.2	1564.6	1563.3
5°	1566.0	1559.2	1544.4	1557.9	1555.2
7.5°	1553.9	1547.1	1532.3	1544.4	1543.1
10°	1537.7	1531.0	1513.5	1525.6	1522.9
12.5°	1516.2	1510.8	1494.7	1502.7	1501.4
15°	1490.6	1485.2	1467.8	1478.5	1470.4
17.5°	1462.4	1455.6	1438.2	1446.2	1443.5
20°	1430.1	1422.0	1404.5	1409.9	1405.9
22.5°	1393.8	1385.7	1368.2	1372.2	1366.9
25°	1353.4	1345.3	1327.8	1329.2	1325.1
27.5°	1311.7	1303.6	1284.8	1286.1	1282.1
30°	1266.0	1259.2	1240.4	1240.4	1231.0
32.5°	1220.2	1210.8	1197.3	1187.9	1183.9
35°	1170.4	1162.4	1144.9	1136.8	1130.1
37.5°	1120.7	1109.9	1092.4	1083.0	1079.0
40°	1068.2	1060.1	1041.3	1030.5	1025.1
42.5°	1015.7	1006.3	987.5	976.7	971.3
45°	959.2	953.8	936.3	920.2	913.5
47.5°	904.1	896.0	879.8	863.7	858.3
50°	847.6	840.8	823.3	808.5	800.5
52.5°	788.4	784.3	765.5	753.4	745.3
55°	727.8	726.5	709.0	694.2	687.5
57.5°	671.3	665.9	652.5	639.0	631.0
60°	609.4	608.1	591.9	579.8	573.1
62.5°	554.3	550.2	534.1	522.0	518.0
65°	496.4	489.7	476.2	465.5	461.4
67.5°	434.5	429.2	418.4	409.0	403.6
70°	379.4	371.3	363.2	353.8	347.1
72.5°	321.5	316.2	306.7	298.7	296.0
75°	262.3	257.0	252.9	246.2	242.2
77.5°	209.9	207.2	201.8	196.4	196.4
80°	158.7	154.7	152.0	150.7	150.7
82.5°	109.0	109.0	109.0	106.3	104.9
85°	70.0	67.3	67.3	64.6	64.6
87.5°	35.0	30.9	29.6	28.3	28.3
90°	2.3	13.8	28.9	32.4	33.5
92.5°	17.3	69.3	214.7	73.3	61.2
95°	39.3	127.6	684.6	199.7	133.9
97.5°	62.3	146.0	1052.9	502.2	274.8
100°	85.4	161.0	1093.3	1050.6	723.8
102.5°	109.7	178.4	1018.2	1406.7	1146.4
105°	133.9	198.0	928.2	1623.2	1468.5
107.5°	159.3	221.0	848.5	1718.4	1678.6
110°	187.0	244.8	782.7	1721.3	1798.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	212.4	269.6	738.8	1656.0	1822.9
115°	236.7	295.0	710.0	1556.8	1785.9
117.5°	260.9	319.2	690.4	1450.6	1705.1
120°	286.3	343.4	677.7	1350.1	1598.9
122.5°	308.2	366.6	669.6	1271.1	1499.6
125°	329.0	388.5	662.7	1200.6	1408.4
127.5°	345.2	409.2	659.2	1142.9	1329.9
130°	360.2	427.7	655.7	1089.8	1265.3
132.5°	371.7	444.5	654.6	1040.2	1201.8
135°	385.6	460.0	653.4	988.8	1141.8
137.5°	398.3	472.8	651.1	940.3	1078.3
140°	411.0	484.3	650.0	893.0	1011.3
142.5°	424.8	494.7	647.6	849.7	949.0
145°	439.8	503.9	645.3	811.0	892.4
147.5°	454.9	513.8	641.9	781.0	843.9
150°	469.9	521.8	637.3	754.4	802.3
152.5°	484.9	530.5	631.5	731.4	767.7
155°	499.9	539.1	624.6	710.0	740.0
157.5°	511.4	546.6	618.8	689.2	713.5
160°	525.3	553.0	611.9	670.2	688.1
162.5°	535.7	557.6	604.9	652.2	665.0
165°	546.1	561.7	598.0	634.4	645.3
167.5°	554.1	565.1	591.1	618.8	625.7
170°	561.1	566.8	584.2	605.0	608.4
172.5°	565.7	568.6	578.4	592.8	592.2
175°	569.1	569.7	573.8	581.8	580.7
177.5°	571.5	570.3	570.3	574.9	572.6
180°	570.3	570.3	570.3	570.3	570.3

(END OF REPORT)