

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: P1011287

Luminaire Tested: S123DIP-B1165D1195UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011287
REPORT IS A COMBINATION OF REPORTS P989383 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1165D1195UB27-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

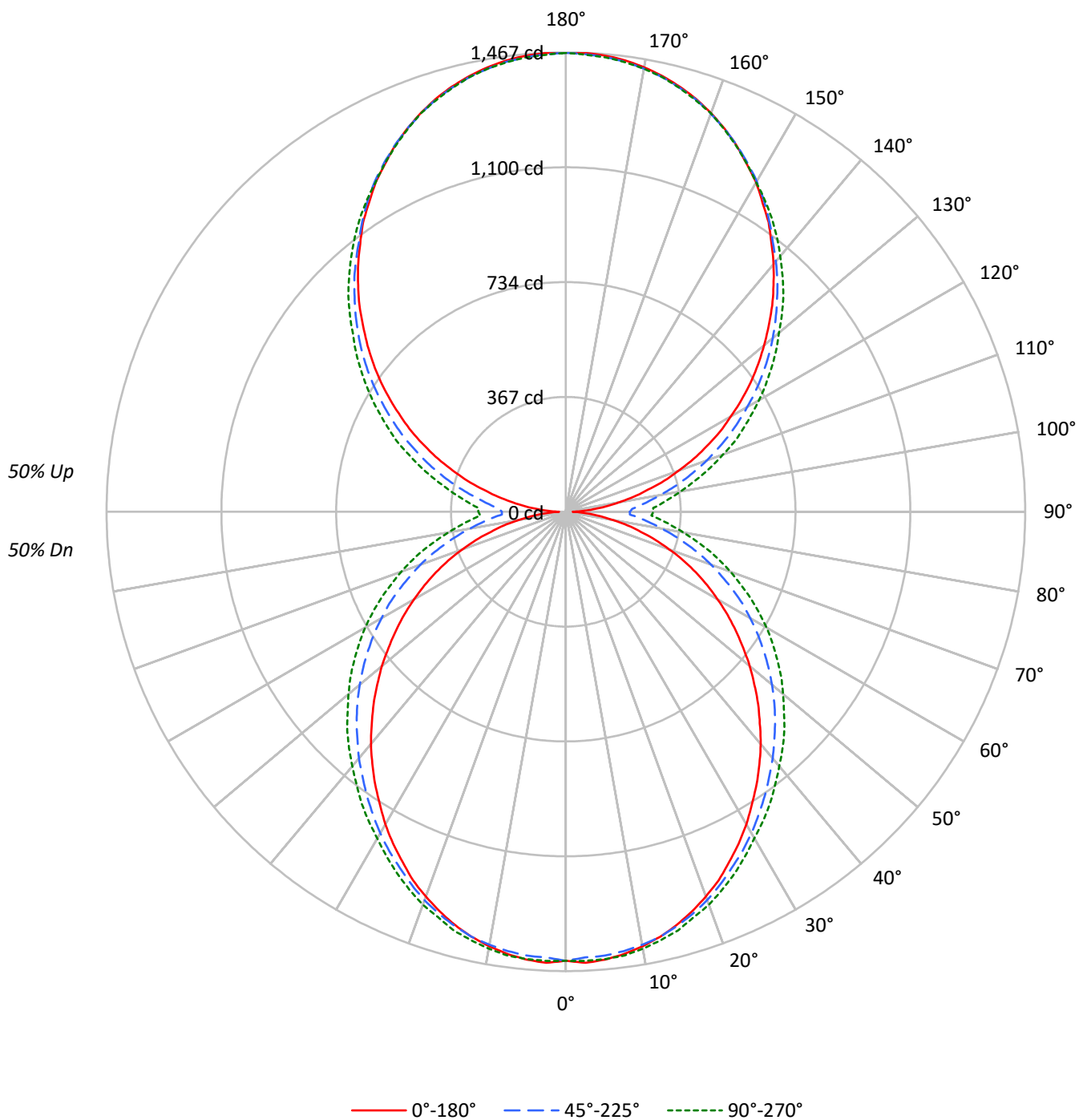
Lumens per Lamp: N/A
Luminaire Lumens: 8883.1 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56
1	97	92	88	84	89	85	81	78	71	69	66	59	57	55	48	46	45
2	88	80	73	68	80	73	68	63	62	58	54	51	48	45	41	39	37
3	80	70	62	56	73	64	58	52	54	49	45	45	41	38	36	34	31
4	73	61	53	47	67	57	50	44	48	42	38	40	36	32	32	29	27
5	67	55	46	40	61	51	43	37	43	37	33	36	31	28	29	26	23
6	61	49	41	35	56	45	38	32	38	33	28	32	28	24	26	23	20
7	57	44	36	30	52	41	34	28	35	29	25	29	25	21	24	20	18
8	53	40	32	27	48	37	30	25	32	26	22	27	22	19	22	18	16
9	49	36	29	24	45	34	27	22	29	23	20	25	20	17	20	17	14
10	46	33	26	21	42	31	24	20	27	21	18	23	18	15	19	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15434	15434	15434
5°	15477	14982	14969
10°	15332	14576	14464
15°	15129	14128	13929
20°	14841	13628	13354
25°	14487	13066	12758
30°	14123	12556	12160
35°	13716	12022	11673
40°	13328	11534	11158
45°	12898	11061	10734
50°	12471	10593	10273
55°	12000	10112	9850
60°	11539	9621	9416
65°	11064	9096	8908
70°	10348	8509	8384
75°	9449	7839	7845
80°	8393	7161	7228
85°	7348	6611	6785

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12898 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	1.5
10°-20°	387.8	4.4
20°-30°	579.9	6.5
30°-40°	692.3	7.8
40°-50°	724.4	8.2
50°-60°	679.8	7.7
60°-70°	567.8	6.4
70°-80°	406.0	4.6
80°-90°	244.7	2.8
90°-100°	246.1	2.8
100°-110°	397.1	4.5
110°-120°	560.6	6.3
120°-130°	682.1	7.7
130°-140°	737.9	8.3
140°-150°	710.7	8.0
150°-160°	595.0	6.7
160°-170°	396.1	4.5
170°-180°	138.7	1.6
0°-30°	1103.7	12.4
0°-40°	1796.0	20.2
0°-60°	3200.1	36.0
0°-90°	4418.6	49.7
90°-120°	1203.9	13.6
90°-150°	3334.6	37.5
90°-180°	4464.0	50.3
0°-180°	8883.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1434	1434	1434	1434	1434	
5°	1436	1432	1423	1436	1434	136
15°	1367	1371	1370	1386	1384	385
25°	1234	1250	1254	1275	1275	569
35°	1062	1087	1107	1131	1137	664
45°	868	906	945	975	987	670
55°	662	714	770	812	825	593
65°	458	519	587	634	650	452
75°	248	322	400	451	470	265
85°	76	155	237	290	306	79
90°	22	110	204	262	280	20
95°	85	154	240	293	308	88
105°	272	311	389	433	449	290
115°	497	519	573	612	623	492
125°	721	724	767	796	802	643
135°	932	938	954	977	983	718
145°	1129	1129	1133	1144	1146	705
155°	1291	1291	1292	1296	1288	594
165°	1406	1402	1402	1409	1401	396
175°	1462	1458	1458	1464	1456	139
180°	1466	1466	1466	1466	1466	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1433.9	1433.9	1433.9	1433.9	1433.9
2.5°	1441.7	1437.0	1424.5	1437.0	1435.5
5°	1435.5	1432.3	1423.0	1435.5	1433.9
7.5°	1424.5	1424.5	1415.1	1430.8	1429.2
10°	1408.9	1412.0	1404.2	1419.8	1416.7
12.5°	1390.2	1394.8	1390.2	1404.2	1401.1
15°	1366.7	1371.4	1369.9	1385.5	1383.9
17.5°	1338.6	1348.0	1346.4	1360.5	1357.4
20°	1307.4	1316.7	1319.9	1333.9	1335.5
22.5°	1274.6	1283.9	1288.6	1307.4	1305.8
25°	1234.0	1249.6	1254.3	1274.6	1274.6
27.5°	1194.9	1212.1	1221.5	1238.6	1240.2
30°	1152.7	1173.0	1185.5	1204.3	1204.3
32.5°	1105.9	1129.3	1146.5	1166.8	1171.5
35°	1062.1	1087.1	1107.4	1130.9	1137.1
37.5°	1015.3	1043.4	1066.8	1093.4	1098.1
40°	968.4	996.5	1027.8	1054.3	1060.6
42.5°	916.9	952.8	985.6	1015.3	1024.7
45°	868.5	905.9	945.0	974.7	987.2
47.5°	816.9	859.1	902.8	935.6	945.0
50°	766.9	810.7	859.1	895.0	905.9
52.5°	713.8	760.7	815.4	852.8	866.9
55°	662.3	713.8	770.1	812.2	824.7
57.5°	612.3	665.4	726.3	768.5	782.5
60°	559.2	615.4	679.5	723.2	740.4
62.5°	509.2	567.0	635.7	679.5	695.1
65°	457.7	518.6	587.3	634.2	649.8
67.5°	406.1	470.2	538.9	590.4	602.9
70°	351.4	418.6	493.6	543.6	559.2
72.5°	301.5	368.6	446.7	498.3	513.9
75°	248.4	321.8	399.9	451.4	470.2
77.5°	203.1	276.5	354.6	409.2	423.3
80°	154.6	231.2	312.4	365.5	381.1
82.5°	112.5	190.6	273.3	326.5	342.1
85°	76.5	154.6	237.4	290.5	306.1
87.5°	46.9	125.0	204.6	257.7	273.3
90°	21.5	109.5	204.1	261.8	279.7
92.5°	53.2	127.3	212.4	267.4	279.1
95°	85.1	154.1	239.8	292.9	308.5
97.5°	127.3	189.3	269.6	322.2	336.6
100°	170.7	227.5	305.1	353.9	371.8
102.5°	220.9	268.0	346.4	393.7	408.1
105°	271.5	311.3	388.8	432.6	448.9
107.5°	329.8	363.8	432.5	478.0	491.0
110°	383.6	414.0	478.8	524.0	534.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	441.1	464.1	523.5	568.2	582.3
115°	497.1	519.4	573.3	611.9	623.3
117.5°	555.8	569.5	620.3	657.8	666.8
120°	608.3	623.1	668.9	703.6	712.3
122.5°	664.7	672.5	718.6	749.6	757.0
125°	720.8	724.3	767.3	795.5	801.7
127.5°	773.8	779.1	815.9	840.2	846.5
130°	826.7	834.3	862.2	887.2	888.5
132.5°	878.1	887.3	908.5	930.8	936.0
135°	932.2	937.6	953.6	977.1	982.6
137.5°	981.7	986.0	1000.3	1019.6	1023.9
140°	1032.0	1037.8	1043.5	1065.9	1065.6
142.5°	1079.2	1083.4	1085.7	1104.8	1106.9
145°	1128.7	1129.4	1132.9	1144.2	1145.8
147.5°	1169.7	1174.3	1177.8	1182.5	1181.8
150°	1214.6	1216.9	1219.2	1219.2	1215.4
152.5°	1251.5	1254.9	1256.1	1258.4	1252.6
155°	1290.6	1290.6	1291.8	1296.4	1288.3
157.5°	1324.0	1322.8	1324.0	1328.6	1321.7
160°	1355.1	1352.8	1352.8	1358.5	1353.9
162.5°	1382.7	1379.2	1380.4	1386.2	1378.1
165°	1405.7	1402.3	1402.3	1409.2	1401.1
167.5°	1425.3	1420.7	1421.8	1428.8	1421.8
170°	1441.4	1436.8	1436.8	1444.9	1436.8
172.5°	1454.1	1449.5	1449.5	1456.4	1448.3
175°	1462.1	1457.5	1457.5	1464.4	1456.4
177.5°	1466.7	1462.1	1462.1	1469.1	1461.0
180°	1465.6	1465.6	1465.6	1465.6	1465.6

(END OF REPORT)