

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: P1011250

Luminaire Tested: S123DIP-B1165D1025UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011250
REPORT IS A COMBINATION OF REPORTS P989346 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1165D1025UB30-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

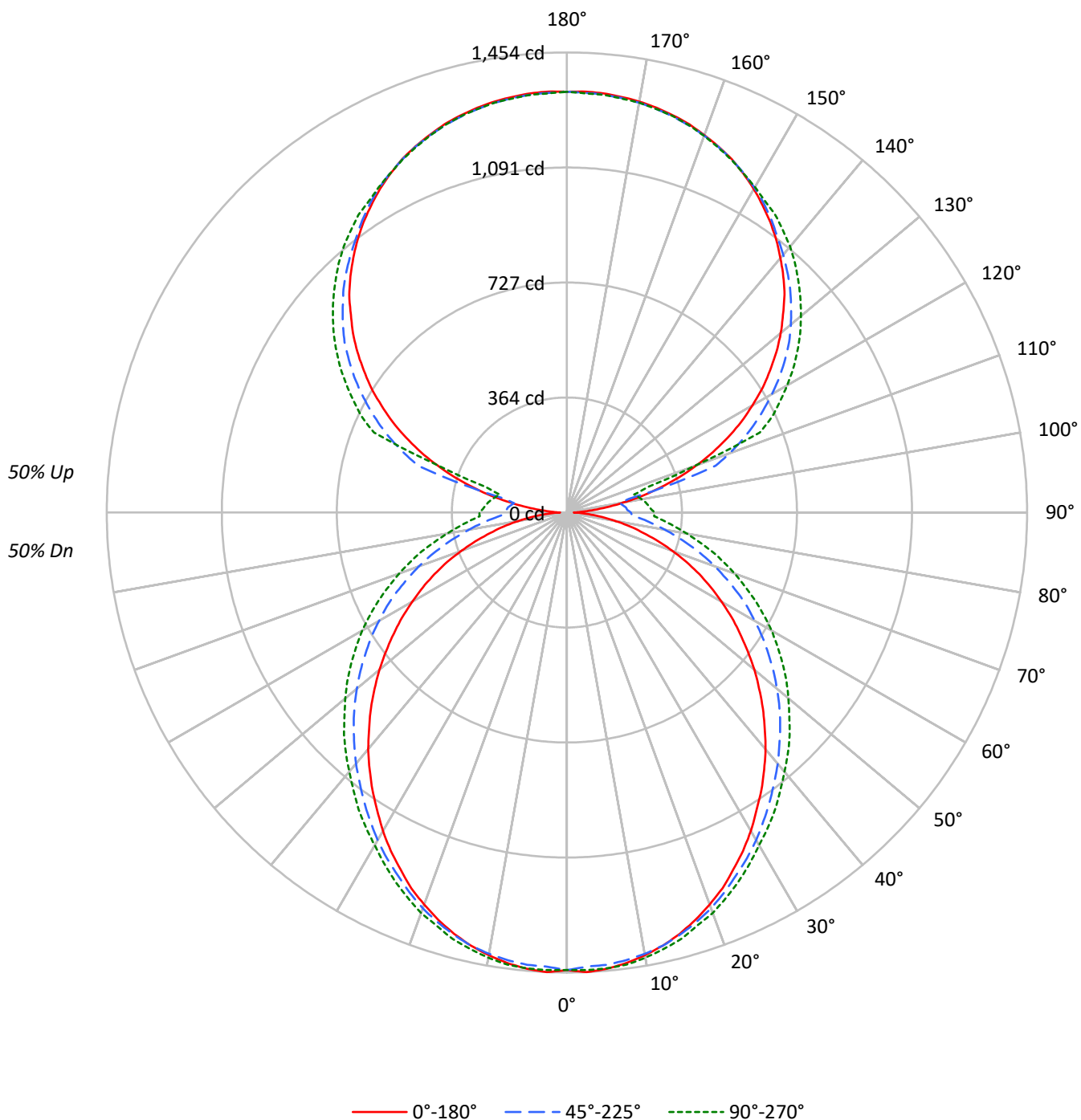
Lumens per Lamp: N/A
Luminaire Lumens: 8917.0 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 89.8
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	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	47	45
2	88	80	73	68	80	74	68	63	62	58	54	51	48	45	42	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	39	33	28	32	28	24	26	23	20
7	57	44	36	30	52	41	34	28	35	29	25	29	25	21	24	21	18
8	53	40	32	27	48	37	30	25	32	26	22	27	22	19	22	19	16
9	49	36	29	24	45	34	27	22	29	24	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°	15566	15566	15566
5°	15608	15109	15097
10°	15462	14700	14588
15°	15258	14248	14048
20°	14967	13744	13467
25°	14610	13176	12866
30°	14243	12663	12263
35°	13834	12125	11772
40°	13442	11631	11252
45°	13007	11155	10825
50°	12578	10683	10361
55°	12102	10197	9933
60°	11636	9701	9496
65°	11159	9174	8984
70°	10437	8581	8455
75°	9529	7906	7911
80°	8469	7223	7290
85°	7415	6667	6844

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13007 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	1.5
10°-20°	391.1	4.4
20°-30°	584.8	6.6
30°-40°	698.2	7.8
40°-50°	730.6	8.2
50°-60°	685.6	7.7
60°-70°	572.6	6.4
70°-80°	409.5	4.6
80°-90°	246.3	2.8
90°-100°	200.0	2.2
100°-110°	339.3	3.8
110°-120°	630.8	7.1
120°-130°	748.3	8.4
130°-140°	772.8	8.7
140°-150°	708.6	7.9
150°-160°	568.4	6.4
160°-170°	366.8	4.1
170°-180°	126.4	1.4
0°-30°	1113.0	12.5
0°-40°	1811.3	20.3
0°-60°	3227.4	36.2
0°-90°	4455.8	50.0
90°-120°	1170.0	13.1
90°-150°	3399.7	38.1
90°-180°	4461.0	50.0
0°-180°	8917.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1446	1446	1446	1446	1446	
5°	1448	1444	1435	1448	1446	137
15°	1378	1383	1382	1397	1396	388
25°	1244	1260	1265	1285	1285	574
35°	1071	1096	1117	1140	1147	670
45°	876	914	953	983	996	675
55°	668	720	777	819	832	598
65°	462	523	592	640	655	456
75°	250	324	403	455	474	268
85°	77	156	239	293	309	79
90°	22	109	202	259	277	18
95°	78	99	187	242	258	86
105°	307	356	334	204	220	325
115°	560	585	651	698	715	554
125°	783	791	841	876	889	700
135°	972	977	998	1029	1034	749
145°	1120	1125	1127	1142	1148	701
155°	1232	1230	1231	1236	1230	568
165°	1299	1296	1295	1303	1296	367
175°	1330	1325	1326	1333	1325	127
180°	1330	1330	1330	1330	1330	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1446.1	1446.1	1446.1	1446.1	1446.1
2.5°	1454.0	1449.2	1436.6	1449.2	1447.7
5°	1447.7	1444.5	1435.1	1447.7	1446.1
7.5°	1436.6	1436.6	1427.2	1442.9	1441.4
10°	1420.9	1424.0	1416.2	1431.9	1428.8
12.5°	1402.0	1406.7	1402.0	1416.2	1413.0
15°	1378.4	1383.1	1381.5	1397.3	1395.7
17.5°	1350.0	1359.5	1357.9	1372.1	1368.9
20°	1318.5	1327.9	1331.1	1345.3	1346.8
22.5°	1285.4	1294.9	1299.6	1318.5	1316.9
25°	1244.5	1260.2	1264.9	1285.4	1285.4
27.5°	1205.1	1222.4	1231.9	1249.2	1250.8
30°	1162.5	1183.0	1195.6	1214.5	1214.5
32.5°	1115.3	1138.9	1156.2	1176.7	1181.4
35°	1071.2	1096.4	1116.9	1140.5	1146.8
37.5°	1023.9	1052.3	1075.9	1102.7	1107.4
40°	976.7	1005.0	1036.5	1063.3	1069.6
42.5°	924.7	960.9	994.0	1023.9	1033.4
45°	875.8	913.7	953.0	983.0	995.6
47.5°	823.9	866.4	910.5	943.6	953.0
50°	773.5	817.6	866.4	902.6	913.7
52.5°	719.9	767.2	822.3	860.1	874.3
55°	667.9	719.9	776.6	819.1	831.7
57.5°	617.5	671.1	732.5	775.0	789.2
60°	563.9	620.7	685.2	729.3	746.7
62.5°	513.5	571.8	641.1	685.2	701.0
65°	461.6	523.0	592.3	639.6	655.3
67.5°	409.6	474.2	543.5	595.4	608.1
70°	354.4	422.2	497.8	548.2	563.9
72.5°	304.0	371.8	450.5	502.5	518.3
75°	250.5	324.5	403.3	455.3	474.2
77.5°	204.8	278.8	357.6	412.7	426.9
80°	156.0	233.1	315.1	368.6	384.4
82.5°	113.4	192.2	275.7	329.2	345.0
85°	77.2	156.0	239.4	293.0	308.8
87.5°	47.3	126.0	206.4	259.9	275.7
90°	21.5	108.6	201.7	259.3	276.9
92.5°	41.6	103.4	191.1	250.0	265.2
95°	77.6	98.6	186.6	242.3	258.0
97.5°	125.5	154.5	178.1	233.3	250.0
100°	181.2	251.3	169.6	223.2	240.0
102.5°	244.8	301.7	200.7	212.2	230.0
105°	307.0	355.7	334.5	203.8	219.9
107.5°	371.6	413.6	493.0	383.4	268.2
110°	436.3	472.5	546.4	554.8	426.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	499.6	528.5	599.3	647.4	659.7
115°	560.2	585.0	650.6	698.3	714.9
117.5°	621.5	641.0	699.4	745.1	758.7
120°	676.2	693.0	748.0	792.1	803.1
122.5°	733.5	743.6	796.4	835.9	848.0
125°	783.3	791.2	840.8	875.9	888.9
127.5°	834.7	841.1	885.3	919.8	928.9
130°	882.1	888.5	923.9	957.8	965.2
132.5°	926.0	933.9	960.5	992.8	1000.9
135°	972.5	976.8	998.1	1029.4	1034.3
137.5°	1012.0	1018.3	1031.3	1061.4	1067.3
140°	1049.9	1055.8	1063.5	1091.1	1097.0
142.5°	1086.5	1090.8	1093.8	1117.2	1122.2
145°	1120.1	1125.4	1127.4	1141.9	1148.2
147.5°	1151.1	1156.0	1158.0	1164.7	1166.0
150°	1180.7	1183.7	1185.7	1187.6	1187.9
152.5°	1207.4	1208.4	1209.4	1213.3	1208.4
155°	1232.1	1230.1	1231.1	1236.0	1230.1
157.5°	1251.9	1251.9	1250.9	1256.8	1248.9
160°	1269.6	1268.7	1267.7	1273.6	1266.7
162.5°	1286.4	1283.5	1282.5	1289.4	1283.5
165°	1299.3	1296.3	1295.3	1303.2	1296.3
167.5°	1310.1	1306.2	1306.2	1314.1	1306.2
170°	1319.0	1315.1	1315.1	1323.0	1315.1
172.5°	1325.0	1320.0	1321.0	1328.9	1320.0
175°	1329.9	1325.0	1326.0	1332.9	1325.0
177.5°	1331.9	1326.9	1327.9	1335.8	1326.0
180°	1329.9	1329.9	1329.9	1329.9	1329.9

(END OF REPORT)