

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: P1011268

Luminaire Tested: S123DIP-B1165D1025UB40-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011268
REPORT IS A COMBINATION OF REPORTS P989364 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1165D1025UB40-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

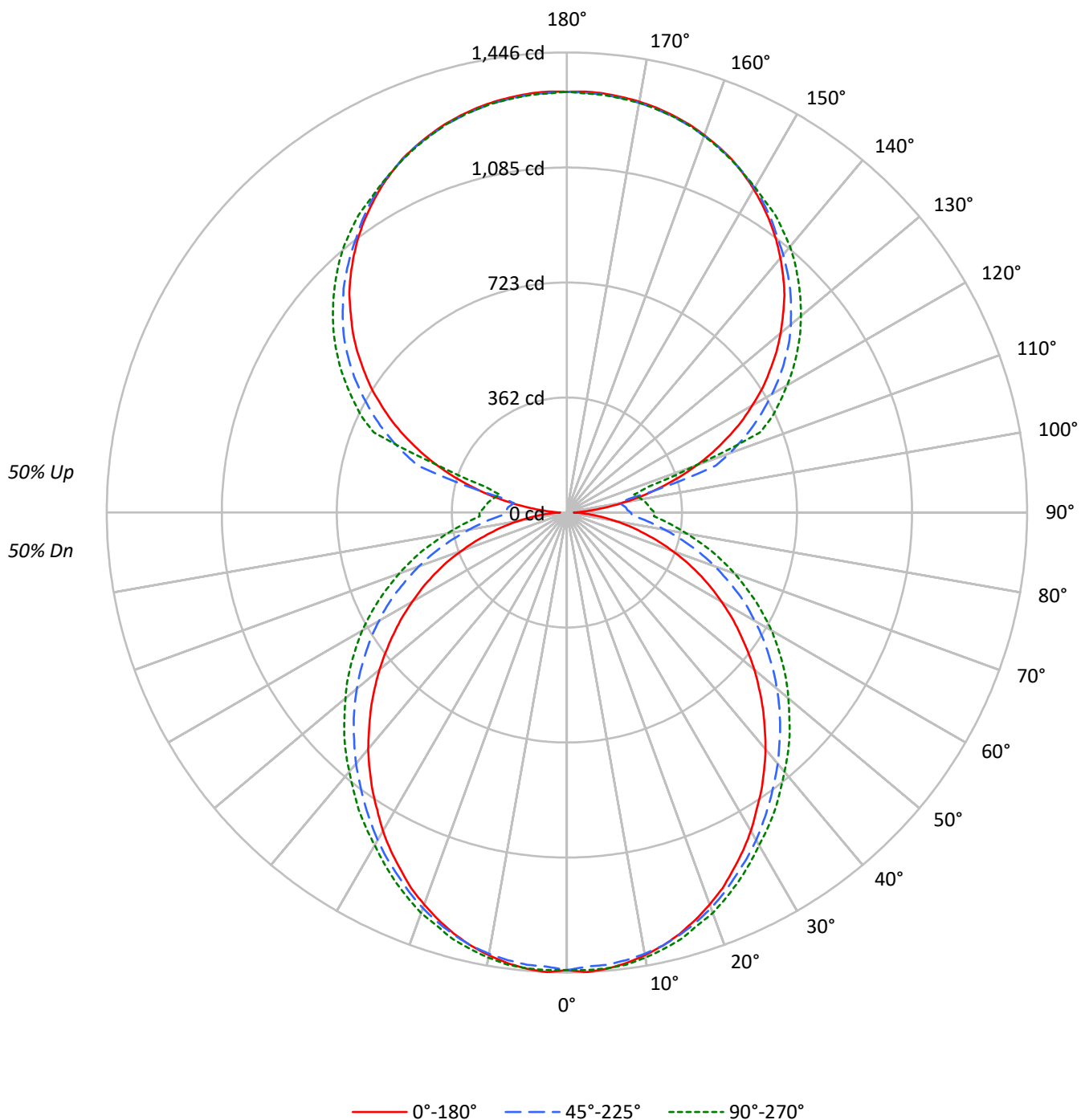
Lumens per Lamp: N/A
Luminaire Lumens: 8867.0 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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					0
RW	70	50	30	10	70	50	30	10	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	56	56	56
1	97	92	88	84	89	85	81	78	71	69	66	59	57	55	48	47	45	45	45	40
2	88	80	73	68	80	74	68	63	62	58	54	51	48	45	42	39	37	37	37	33
3	80	70	62	56	73	64	58	52	54	49	45	45	41	38	36	34	31	31	31	27
4	73	61	53	47	67	57	50	44	48	42	38	40	36	32	32	29	27	27	27	23
5	67	55	46	40	61	51	43	37	43	37	33	36	31	28	29	26	23	23	23	20
6	61	49	41	35	56	45	38	32	39	33	28	32	28	24	26	23	20	20	20	17
7	57	44	36	30	52	41	34	28	35	29	25	29	25	21	24	21	18	18	18	15
8	53	40	32	27	48	37	30	25	32	26	22	27	22	19	22	19	16	16	16	14
9	49	36	29	24	45	34	27	22	29	24	20	25	20	17	20	17	14	14	14	12
10	46	33	26	21	42	31	24	20	27	21	18	23	18	15	19	15	13	13	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15480	15480	15480
5°	15521	15025	15013
10°	15376	14618	14506
15°	15173	14168	13969
20°	14884	13668	13393
25°	14528	13103	12795
30°	14165	12593	12195
35°	13756	12058	11706
40°	13366	11567	11190
45°	12935	11093	10764
50°	12508	10623	10303
55°	12035	10141	9878
60°	11572	9647	9442
65°	11096	9122	8934
70°	10381	8533	8408
75°	9476	7861	7866
80°	8420	7181	7248
85°	7377	6630	6805

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12935 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.4	1.5
10°-20°	388.9	4.4
20°-30°	581.6	6.6
30°-40°	694.4	7.8
40°-50°	726.5	8.2
50°-60°	681.7	7.7
60°-70°	569.4	6.4
70°-80°	407.2	4.6
80°-90°	244.9	2.8
90°-100°	198.9	2.2
100°-110°	337.4	3.8
110°-120°	627.2	7.1
120°-130°	744.0	8.4
130°-140°	768.4	8.7
140°-150°	704.6	7.9
150°-160°	565.1	6.4
160°-170°	364.7	4.1
170°-180°	125.7	1.4
0°-30°	1106.9	12.5
0°-40°	1801.2	20.3
0°-60°	3209.4	36.2
0°-90°	4431.0	50.0
90°-120°	1163.5	13.1
90°-150°	3380.5	38.1
90°-180°	4436.0	50.0
0°-180°	8867.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1438	1438	1438	1438	1438	
5°	1440	1436	1427	1440	1438	137
15°	1371	1375	1374	1390	1388	386
25°	1238	1253	1258	1278	1278	570
35°	1065	1090	1111	1134	1140	666
45°	871	909	948	978	990	672
55°	664	716	772	815	827	595
65°	459	520	589	636	652	454
75°	249	323	401	453	472	266
85°	77	155	238	291	307	79
90°	21	108	201	258	275	18
95°	77	98	186	241	257	85
105°	305	354	333	203	219	323
115°	557	582	647	694	711	551
125°	779	787	836	871	884	696
135°	967	971	992	1024	1028	744
145°	1114	1119	1121	1135	1142	697
155°	1225	1223	1224	1229	1223	564
165°	1292	1289	1288	1296	1289	365
175°	1322	1318	1318	1325	1318	126
180°	1322	1322	1322	1322	1322	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1438.1	1438.1	1438.1	1438.1	1438.1
2.5°	1445.9	1441.2	1428.7	1441.2	1439.6
5°	1439.6	1436.5	1427.1	1439.6	1438.1
7.5°	1428.7	1428.7	1419.3	1434.9	1433.4
10°	1413.0	1416.1	1408.3	1424.0	1420.8
12.5°	1394.2	1398.9	1394.2	1408.3	1405.2
15°	1370.7	1375.4	1373.8	1389.5	1387.9
17.5°	1342.5	1351.9	1350.3	1364.4	1361.3
20°	1311.2	1320.6	1323.7	1337.8	1339.4
22.5°	1278.3	1287.7	1292.4	1311.2	1309.6
25°	1237.5	1253.2	1257.9	1278.3	1278.3
27.5°	1198.4	1215.6	1225.0	1242.2	1243.8
30°	1156.1	1176.5	1189.0	1207.8	1207.8
32.5°	1109.1	1132.6	1149.8	1170.2	1174.9
35°	1065.2	1090.3	1110.7	1134.2	1140.4
37.5°	1018.2	1046.4	1069.9	1096.6	1101.3
40°	971.2	999.4	1030.8	1057.4	1063.7
42.5°	919.5	955.6	988.5	1018.2	1027.6
45°	871.0	908.6	947.7	977.5	990.0
47.5°	819.3	861.6	905.4	938.3	947.7
50°	769.2	813.0	861.6	897.6	908.6
52.5°	715.9	762.9	817.7	855.3	869.4
55°	664.2	715.9	772.3	814.6	827.1
57.5°	614.1	667.3	728.4	770.7	784.8
60°	560.8	617.2	681.4	725.3	742.5
62.5°	510.7	568.6	637.6	681.4	697.1
65°	459.0	520.1	589.0	636.0	651.7
67.5°	407.3	471.5	540.4	592.1	604.7
70°	352.5	419.8	495.0	545.1	560.8
72.5°	302.3	369.7	448.0	499.7	515.4
75°	249.1	322.7	401.0	452.7	471.5
77.5°	203.6	277.3	355.6	410.4	424.5
80°	155.1	231.8	313.3	366.6	382.2
82.5°	112.8	191.1	274.1	327.4	343.1
85°	76.8	155.1	238.1	291.4	307.0
87.5°	47.0	125.3	205.2	258.5	274.1
90°	21.4	107.9	200.6	257.8	275.4
92.5°	41.4	102.9	190.0	248.6	263.7
95°	77.1	97.9	185.6	240.9	256.6
97.5°	124.8	153.6	177.1	232.0	248.6
100°	180.1	249.9	168.7	222.0	238.7
102.5°	243.4	300.0	199.6	211.0	228.6
105°	305.3	353.7	332.7	202.7	218.6
107.5°	369.6	411.3	490.3	381.3	266.7
110°	433.8	469.9	543.4	551.7	423.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	496.7	525.5	595.9	643.8	656.0
115°	557.0	581.7	646.9	694.3	710.9
117.5°	617.9	637.4	695.5	740.9	754.5
120°	672.4	689.0	743.7	787.5	798.5
122.5°	729.4	739.4	791.9	831.2	843.2
125°	778.9	786.7	836.1	870.9	883.9
127.5°	830.0	836.2	880.3	914.6	923.6
130°	877.1	883.4	918.7	952.3	959.8
132.5°	920.7	928.6	955.0	987.1	995.2
135°	966.9	971.3	992.4	1023.6	1028.4
137.5°	1006.2	1012.5	1025.4	1055.4	1061.2
140°	1044.0	1049.9	1057.5	1084.9	1090.8
142.5°	1080.3	1084.6	1087.6	1110.9	1115.8
145°	1113.7	1119.0	1121.0	1135.4	1141.7
147.5°	1144.5	1149.5	1151.4	1158.1	1159.5
150°	1174.0	1177.0	1178.9	1180.9	1181.1
152.5°	1200.5	1201.5	1202.5	1206.4	1201.5
155°	1225.1	1223.1	1224.1	1229.0	1223.1
157.5°	1244.8	1244.8	1243.8	1249.7	1241.8
160°	1262.4	1261.5	1260.5	1266.4	1259.5
162.5°	1279.1	1276.2	1275.2	1282.1	1276.2
165°	1291.9	1289.0	1288.0	1295.8	1289.0
167.5°	1302.7	1298.8	1298.8	1306.7	1298.8
170°	1311.6	1307.6	1307.6	1315.5	1307.6
172.5°	1317.5	1312.5	1313.5	1321.4	1312.5
175°	1322.4	1317.5	1318.4	1325.3	1317.5
177.5°	1324.3	1319.4	1320.4	1328.3	1318.4
180°	1322.4	1322.4	1322.4	1322.4	1322.4

(END OF REPORT)