

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: P1008548

Luminaire Tested: S122DIP-B1005D1080UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008548
REPORT IS A COMBINATION OF REPORTS P983522 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D1080UB27-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

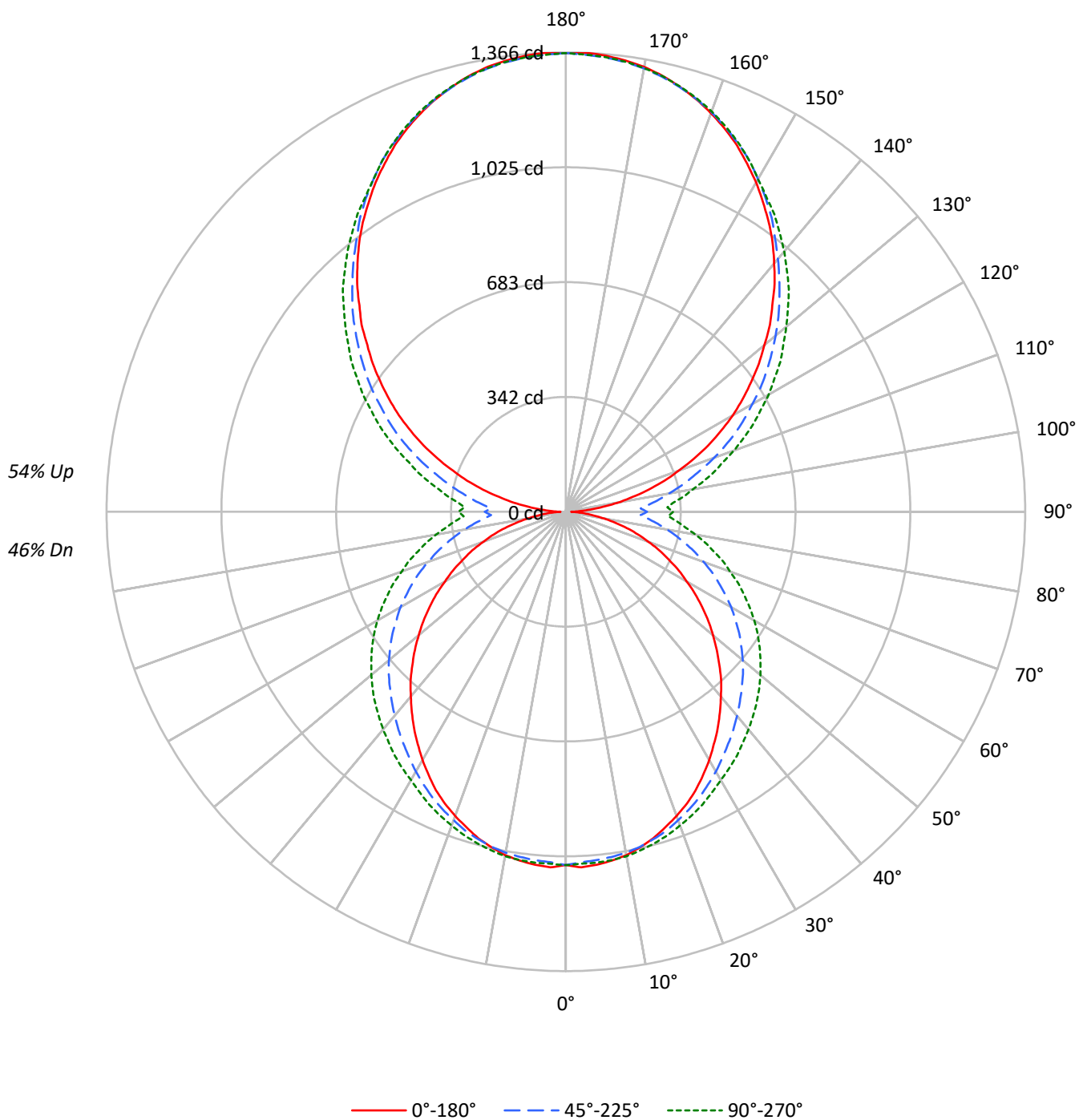
Lumens per Lamp: N/A
Luminaire Lumens: 7826.0 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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
RCR																	
0	106	106	106	106	97	97	97	97	81	81	81		66	66	66		52
1	95	91	86	82	87	83	79	76	69	66	64		56	54	52		44
2	86	78	72	66	79	72	66	61	59	55	51		48	45	42		38
3	78	68	61	54	71	63	56	50	52	47	43		42	38	35		33
4	71	60	52	46	65	55	48	42	46	40	36		37	33	30		29
5	65	53	45	39	60	49	42	36	41	35	31		33	29	26		26
6	60	48	39	33	55	44	36	31	37	31	27		30	26	22		24
7	56	43	35	29	51	40	32	27	33	27	23		27	23	19		22
8	51	39	31	25	47	36	29	24	30	25	20		25	20	17		20
9	48	35	28	23	44	33	26	21	28	22	18		23	18	15		18
10	45	32	25	20	41	30	23	19	25	20	16		21	17	14		17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16632	16632	16632
5°	16706	15921	15831
10°	16595	15371	15146
15°	16360	14799	14442
20°	16066	14201	13775
25°	15773	13627	13169
30°	15364	13044	12569
35°	14950	12483	12129
40°	14515	11997	11692
45°	14100	11555	11311
50°	13655	11149	10935
55°	13187	10718	10551
60°	12614	10269	10149
65°	12016	9752	9684
70°	11342	9198	9185
75°	10478	8643	8715
80°	9117	8066	8226
85°	7741	7522	7807

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14100 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	1.3
10°-20°	285.7	3.7
20°-30°	432.8	5.5
30°-40°	527.1	6.7
40°-50°	567.1	7.2
50°-60°	550.7	7.0
60°-70°	481.0	6.1
70°-80°	370.2	4.7
80°-90°	251.8	3.2
90°-100°	255.4	3.3
100°-110°	393.1	5.0
110°-120°	541.4	6.9
120°-130°	649.5	8.3
130°-140°	696.8	8.9
140°-150°	667.6	8.5
150°-160°	557.3	7.1
160°-170°	369.6	4.7
170°-180°	129.2	1.7
0°-30°	818.1	10.5
0°-40°	1345.2	17.2
0°-60°	2463.0	31.5
0°-90°	3566.0	45.6
90°-120°	1190.0	15.2
90°-150°	3203.9	40.9
90°-180°	4260.0	54.4
0°-180°	7826.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1051	1051	1051	1051	1051	
5°	1054	1049	1040	1049	1048	100
15°	1005	1008	1008	1022	1020	283
25°	914	924	938	956	961	420
35°	787	813	842	876	886	492
45°	646	687	740	787	802	498
55°	495	550	629	684	704	443
65°	338	413	502	565	585	336
75°	187	273	370	436	455	198
85°	55	149	247	311	332	58
90°	16	118	241	300	319	14
95°	72	155	249	307	323	76
105°	255	303	384	440	456	270
115°	466	490	556	601	614	461
125°	673	683	729	766	779	602
135°	868	881	898	929	938	671
145°	1052	1060	1067	1077	1080	658
155°	1203	1206	1210	1215	1212	554
165°	1309	1308	1308	1316	1310	369
175°	1362	1358	1356	1364	1357	129
180°	1364	1364	1364	1364	1364	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1050.7	1050.7	1050.7	1050.7	1050.7
2.5°	1058.3	1053.7	1043.1	1050.7	1047.6
5°	1053.7	1049.2	1040.0	1049.2	1047.6
7.5°	1046.1	1043.1	1035.4	1046.1	1044.6
10°	1037.0	1033.9	1029.4	1041.5	1040.0
12.5°	1021.7	1023.3	1020.2	1032.4	1030.9
15°	1005.0	1008.0	1008.0	1021.7	1020.2
17.5°	983.7	989.8	994.3	1008.0	1008.0
20°	962.4	970.0	976.1	992.8	992.8
22.5°	939.5	948.7	957.8	974.5	977.6
25°	913.6	924.3	938.0	956.3	960.8
27.5°	883.2	899.9	915.2	938.0	941.0
30°	852.7	872.5	892.3	916.7	921.2
32.5°	819.2	842.1	866.4	895.4	904.5
35°	787.2	813.1	842.1	875.6	886.2
37.5°	752.2	781.2	817.7	854.2	864.9
40°	717.2	750.7	791.8	831.4	845.1
42.5°	683.7	717.2	765.9	810.1	823.8
45°	645.6	686.7	740.0	787.2	802.5
47.5°	609.1	653.2	714.2	762.9	779.6
50°	571.0	618.2	686.7	738.5	755.3
52.5°	534.5	584.7	657.8	711.1	729.4
55°	494.9	549.7	628.9	683.7	703.5
57.5°	456.8	517.7	596.9	656.3	676.1
60°	415.7	481.2	568.0	625.8	647.2
62.5°	379.2	447.7	534.5	596.9	616.7
65°	338.0	412.7	502.5	564.9	584.7
67.5°	301.5	379.2	470.5	533.0	554.3
70°	261.9	341.1	435.5	501.0	519.2
72.5°	225.4	307.6	403.5	467.5	490.3
75°	187.3	272.6	370.0	435.5	455.3
77.5°	150.7	239.1	338.0	403.5	424.8
80°	114.2	207.1	306.1	370.0	391.3
82.5°	83.7	175.1	275.6	339.6	359.4
85°	54.8	149.2	246.7	310.6	332.0
87.5°	33.5	124.9	222.3	284.7	304.5
90°	16.4	118.5	241.3	299.9	319.3
92.5°	39.0	128.9	223.0	283.5	301.8
95°	72.0	155.1	248.8	306.7	322.6
97.5°	110.8	186.6	279.6	335.9	354.2
100°	156.9	222.4	311.1	367.4	383.1
102.5°	203.6	260.8	347.6	403.6	419.2
105°	255.1	302.7	384.2	439.7	456.5
107.5°	308.0	349.2	425.3	478.3	489.2
110°	357.1	394.4	469.1	517.8	531.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	412.4	443.7	512.5	557.8	572.3
115°	466.5	490.1	556.4	600.8	614.2
117.5°	519.1	540.4	598.6	640.9	652.6
120°	573.2	588.5	640.2	682.8	696.1
122.5°	622.7	635.7	686.2	723.9	735.3
125°	672.8	683.2	728.6	766.2	778.8
127.5°	723.5	734.7	771.1	804.6	814.9
130°	770.7	784.1	813.8	848.0	855.6
132.5°	823.6	833.6	857.7	886.9	895.7
135°	868.2	880.8	898.3	929.2	937.9
137.5°	918.8	929.2	939.1	966.9	972.9
140°	963.7	972.5	981.3	1005.7	1010.2
142.5°	1009.7	1018.6	1022.0	1041.5	1044.5
145°	1052.0	1060.0	1066.9	1077.2	1080.2
147.5°	1091.1	1101.5	1106.1	1109.9	1109.9
150°	1131.4	1138.3	1142.9	1146.3	1142.9
152.5°	1167.1	1174.0	1179.7	1184.3	1179.7
155°	1202.7	1206.2	1209.6	1215.4	1211.9
157.5°	1233.8	1236.1	1238.4	1246.5	1240.7
160°	1261.4	1263.7	1264.9	1271.8	1267.2
162.5°	1286.8	1286.8	1287.9	1296.0	1290.2
165°	1308.6	1307.5	1307.5	1315.5	1309.8
167.5°	1328.2	1324.7	1324.7	1332.8	1327.0
170°	1343.2	1339.7	1338.5	1346.6	1339.7
172.5°	1353.5	1350.1	1348.9	1357.0	1350.1
175°	1361.6	1358.1	1355.8	1363.9	1357.0
177.5°	1366.2	1362.7	1360.4	1367.3	1360.4
180°	1363.9	1363.9	1363.9	1363.9	1363.9

(END OF REPORT)