

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: P1009222

Luminaire Tested: S122DIP-B675D1080UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009222
REPORT IS A COMBINATION OF REPORTS P984445 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D1080UB30-4F0-XX-W2A-D
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

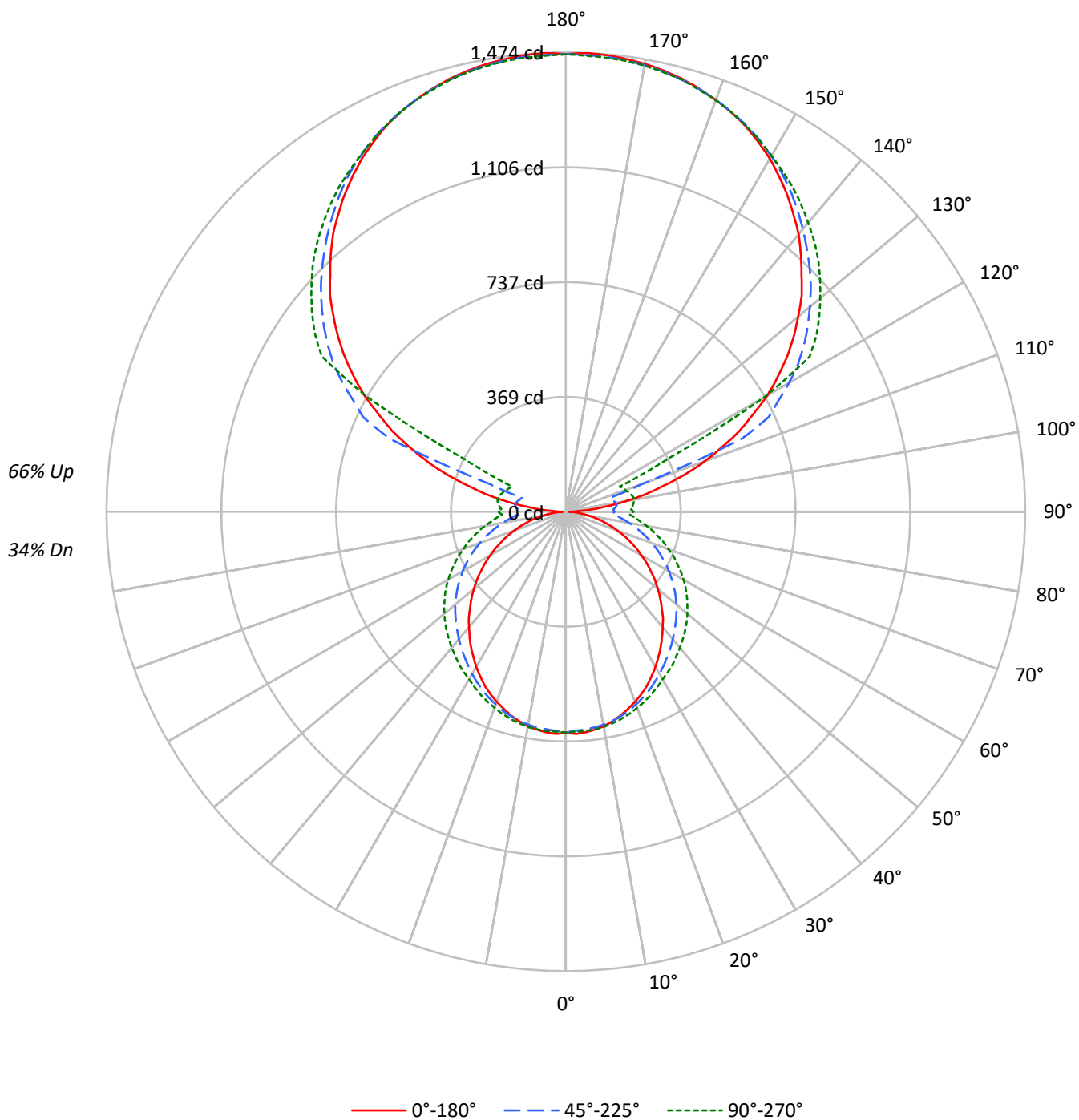
Lumens per Lamp: N/A
Luminaire Lumens: 7009.0 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 70.9
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	103	103	103	103	93	93	93	93		75	75	75		57	57	57		42	42	42
1	93	89	84	81	84	80	76	73		64	61	59		49	47	46		35	34	33
2	84	77	70	65	76	69	64	59		55	51	48		42	40	37		30	29	27
3	77	67	60	54	69	61	54	49		48	44	40		37	34	31		27	24	23
4	70	59	51	45	63	53	46	41		43	38	34		33	29	26		24	21	19
5	64	52	44	38	57	47	40	35		38	33	29		29	25	22		21	19	16
6	59	47	39	33	53	42	35	30		34	29	25		26	22	19		19	16	14
7	54	42	34	28	49	38	31	26		31	25	22		24	20	17		17	15	13
8	50	38	30	25	45	34	28	23		28	23	19		22	18	15		16	13	11
9	47	35	27	22	42	31	25	20		25	20	17		20	16	13		15	12	10
10	44	32	24	20	39	29	22	18		23	18	15		18	15	12		13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11209	11209	11209
5°	11260	10732	10671
10°	11184	10360	10209
15°	11026	9975	9734
20°	10827	9570	9284
25°	10631	9185	8876
30°	10355	8791	8472
35°	10077	8412	8175
40°	9784	8086	7880
45°	9503	7789	7624
50°	9204	7516	7369
55°	8886	7225	7111
60°	8503	6921	6840
65°	8098	6573	6527
70°	7644	6199	6192
75°	7060	5826	5874
80°	6148	5436	5546
85°	5212	5071	5260

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9503 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	1.0
10°-20°	192.5	2.7
20°-30°	291.7	4.2
30°-40°	355.2	5.1
40°-50°	382.2	5.5
50°-60°	371.2	5.3
60°-70°	324.2	4.6
70°-80°	249.5	3.6
80°-90°	169.7	2.4
90°-100°	163.7	2.3
100°-110°	264.7	3.8
110°-120°	534.3	7.6
120°-130°	824.9	11.8
130°-140°	856.3	12.2
140°-150°	786.0	11.2
150°-160°	630.1	9.0
160°-170°	406.0	5.8
170°-180°	139.7	2.0
0°-30°	551.4	7.9
0°-40°	906.6	12.9
0°-60°	1660.0	23.7
0°-90°	2403.4	34.3
90°-120°	962.6	13.7
90°-150°	3429.7	48.9
90°-180°	4606.0	65.7
0°-180°	7009.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	708	708	708	708	708	
5°	710	707	701	707	706	67
15°	677	679	679	689	688	191
25°	616	623	632	644	648	283
35°	531	548	568	590	597	332
45°	435	463	499	531	541	336
55°	334	370	424	461	474	298
65°	228	278	339	381	394	226
75°	126	184	249	294	307	134
85°	37	101	166	209	224	39
90°	11	82	157	203	218	11
95°	77	90	159	204	215	88
105°	328	390	153	201	216	351
115°	615	644	717	256	191	605
125°	866	880	933	968	980	773
135°	1070	1087	1107	1139	1145	827
145°	1240	1239	1257	1270	1270	776
155°	1365	1356	1368	1375	1366	629
165°	1438	1432	1435	1443	1435	406
175°	1471	1464	1466	1474	1463	140
180°	1468	1468	1468	1468	1468	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	708.1	708.1	708.1	708.1	708.1
2.5°	713.3	710.2	703.0	708.1	706.1
5°	710.2	707.1	701.0	707.1	706.1
7.5°	705.1	703.0	697.9	705.1	704.0
10°	698.9	696.8	693.8	702.0	701.0
12.5°	688.6	689.7	687.6	695.8	694.8
15°	677.3	679.4	679.4	688.6	687.6
17.5°	663.0	667.1	670.2	679.4	679.4
20°	648.6	653.7	657.8	669.1	669.1
22.5°	633.2	639.4	645.5	656.8	658.9
25°	615.8	623.0	632.2	644.5	647.6
27.5°	595.2	606.5	616.8	632.2	634.2
30°	574.7	588.1	601.4	617.8	620.9
32.5°	552.1	567.5	584.0	603.5	609.6
35°	530.6	548.0	567.5	590.1	597.3
37.5°	507.0	526.5	551.1	575.7	582.9
40°	483.4	506.0	533.7	560.4	569.6
42.5°	460.8	483.4	516.2	546.0	555.2
45°	435.1	462.9	498.8	530.6	540.9
47.5°	410.5	440.3	481.3	514.2	525.5
50°	384.9	416.7	462.9	497.7	509.0
52.5°	360.2	394.1	443.4	479.3	491.6
55°	333.5	370.5	423.9	460.8	474.1
57.5°	307.9	348.9	402.3	442.3	455.7
60°	280.2	324.3	382.8	421.8	436.2
62.5°	255.5	301.7	360.2	402.3	415.6
65°	227.8	278.1	338.7	380.8	394.1
67.5°	203.2	255.5	317.1	359.2	373.6
70°	176.5	229.9	293.5	337.6	350.0
72.5°	151.9	207.3	272.0	315.1	330.5
75°	126.2	183.7	249.4	293.5	306.9
77.5°	101.6	161.1	227.8	272.0	286.3
80°	77.0	139.6	206.3	249.4	263.8
82.5°	56.4	118.0	185.8	228.9	242.2
85°	36.9	100.6	166.3	209.4	223.7
87.5°	22.6	84.2	149.8	191.9	205.3
90°	11.4	82.5	156.7	203.1	217.5
92.5°	35.8	85.9	151.7	193.9	207.3
95°	77.3	90.4	159.4	203.7	215.0
97.5°	131.5	88.5	165.0	206.2	219.5
100°	195.2	87.7	163.2	209.7	223.1
102.5°	264.4	296.0	158.1	206.8	221.3
105°	328.1	389.7	153.1	200.7	216.2
107.5°	403.5	454.8	148.0	194.6	210.2
110°	474.7	517.6	260.8	187.5	202.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	542.7	578.3	607.4	182.4	196.9
115°	615.0	644.3	717.1	256.0	190.8
117.5°	676.7	706.1	767.3	646.2	378.0
120°	746.8	766.8	827.0	868.5	736.4
122.5°	806.3	824.3	883.5	917.6	927.9
125°	865.8	879.7	932.6	967.8	980.2
127.5°	921.1	934.9	978.5	1014.8	1025.1
130°	973.1	989.0	1022.3	1058.6	1065.8
132.5°	1026.3	1039.0	1066.1	1099.2	1106.4
135°	1069.8	1086.8	1106.6	1138.8	1144.9
137.5°	1116.5	1129.3	1145.1	1175.2	1179.1
140°	1162.2	1169.7	1183.5	1209.5	1210.3
142.5°	1200.5	1206.9	1220.7	1241.5	1241.3
145°	1239.8	1238.8	1256.8	1270.5	1270.3
147.5°	1274.9	1271.7	1289.8	1296.1	1294.9
150°	1308.9	1301.5	1318.5	1324.8	1319.5
152.5°	1337.6	1329.1	1345.0	1351.4	1344.0
155°	1365.2	1355.6	1368.4	1374.8	1366.3
157.5°	1387.5	1379.0	1388.6	1396.0	1387.5
160°	1406.6	1400.3	1406.6	1413.0	1405.6
162.5°	1423.6	1417.3	1422.6	1430.0	1420.4
165°	1438.5	1432.1	1435.3	1442.8	1435.3
167.5°	1450.2	1443.8	1447.0	1454.4	1444.9
170°	1459.8	1453.4	1455.5	1462.9	1453.4
172.5°	1466.1	1459.8	1461.9	1469.3	1459.8
175°	1471.4	1464.0	1466.1	1473.6	1462.9
177.5°	1473.6	1466.1	1467.2	1474.6	1465.1
180°	1468.3	1468.3	1468.3	1468.3	1468.3

(END OF REPORT)