

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: P1009226

Luminaire Tested: S122DIP-B675D1080UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009226
REPORT IS A COMBINATION OF REPORTS P984449 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-F1
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

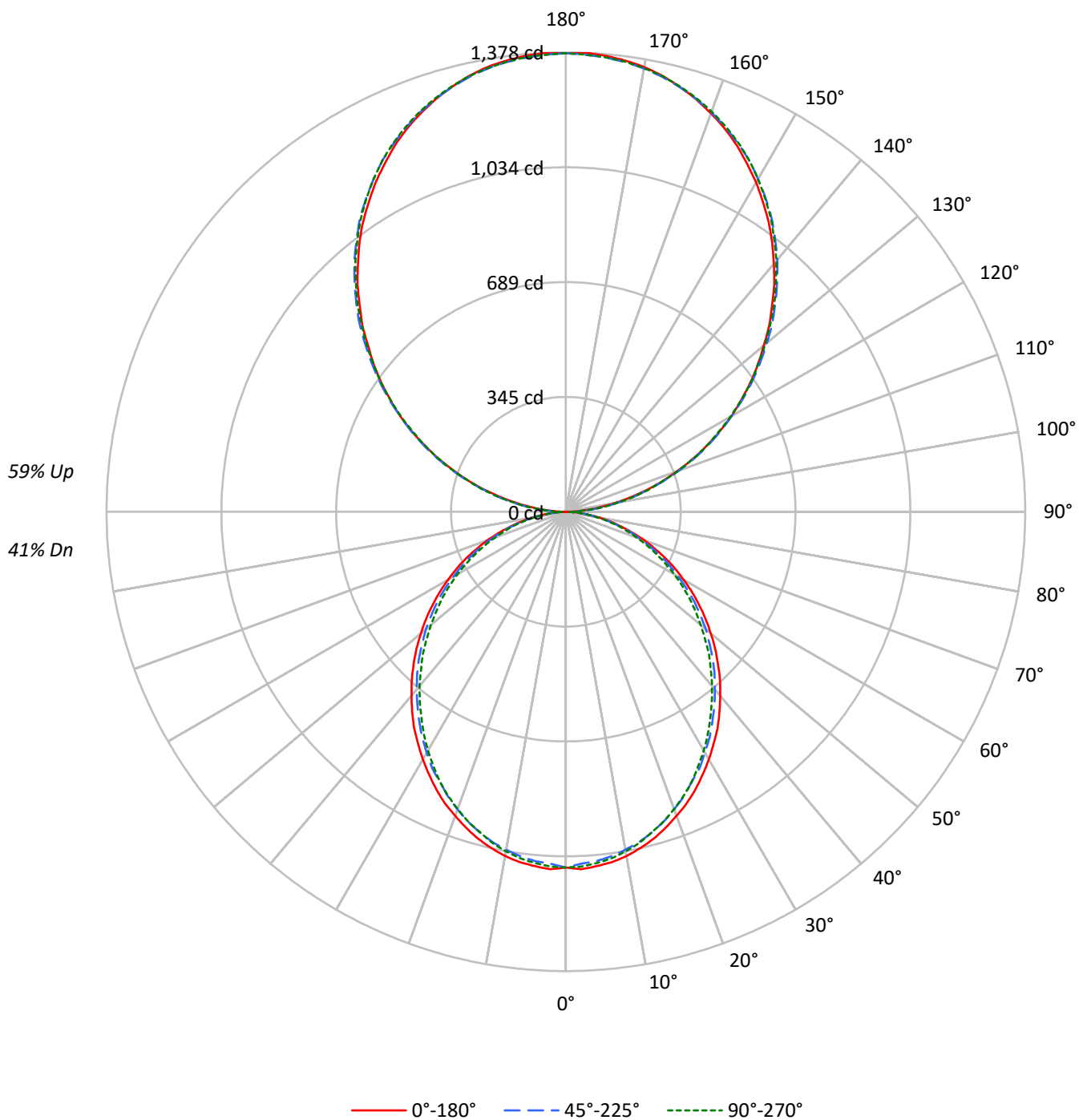
Lumens per Lamp: N/A
Luminaire Lumens: 6565.0 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48
1	96	92	88	84	87	84	80	77	69	67	64	55	54	52	43	42	41
2	87	80	74	69	79	73	68	64	60	57	53	48	46	44	37	36	34
3	80	70	63	57	72	64	58	53	53	49	45	43	40	37	33	31	29
4	73	62	54	48	66	57	50	45	47	42	38	38	34	32	30	27	25
5	67	55	47	41	61	51	44	39	42	37	33	34	30	27	27	24	22
6	61	50	42	36	56	46	39	33	38	33	29	31	27	24	24	21	19
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17
8	53	41	33	28	48	37	31	26	31	26	22	26	22	19	20	17	15
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16891	16891	16891
5°	16919	16102	15987
10°	16782	15368	15062
15°	16536	14627	14090
20°	16204	13824	13168
25°	15873	12984	12249
30°	15456	12195	11284
35°	15064	11362	10336
40°	14578	10541	9441
45°	14096	9725	8563
50°	13569	8896	7650
55°	13014	8010	6787
60°	12393	7049	5890
65°	11710	6075	4946
70°	10844	5005	3993
75°	9644	3859	3084
80°	8191	2622	1985
85°	5947	1220	844

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14096 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.4	1.5
10°-20°	282.6	4.3
20°-30°	415.3	6.3
30°-40°	482.3	7.3
40°-50°	481.7	7.3
50°-60°	420.0	6.4
60°-70°	310.5	4.7
70°-80°	175.7	2.7
80°-90°	50.3	0.8
90°-100°	85.1	1.3
100°-110°	270.5	4.1
110°-120°	462.9	7.1
120°-130°	608.8	9.3
130°-140°	683.4	10.4
140°-150°	670.1	10.2
150°-160°	562.1	8.6
160°-170°	372.8	5.7
170°-180°	130.3	2.0
0°-30°	798.3	12.2
0°-40°	1280.6	19.5
0°-60°	2182.4	33.2
0°-90°	2718.9	41.4
90°-120°	818.5	12.5
90°-150°	2780.8	42.4
90°-180°	3846.0	58.6
0°-180°	6565.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1067	1067	1067	1067	1067	
5°	1067	1063	1052	1060	1058	101
15°	1016	1010	996	1000	995	286
25°	919	911	894	896	894	423
35°	793	783	766	760	755	495
45°	645	638	623	612	608	498
55°	488	482	470	458	452	437
65°	329	323	313	304	299	326
75°	172	170	165	159	161	184
85°	42	41	40	37	36	47
90°	1	15	41	38	40	6
95°	60	72	74	74	72	67
105°	250	253	255	258	258	264
115°	464	471	469	468	464	459
125°	676	686	683	679	678	604
135°	874	887	889	888	885	675
145°	1061	1069	1076	1077	1073	663
155°	1213	1217	1220	1226	1222	558
165°	1320	1319	1319	1327	1321	372
175°	1373	1370	1368	1376	1369	130
180°	1376	1376	1376	1376	1376	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1067.1	1067.1	1067.1	1067.1	1067.1
2.5°	1073.3	1068.2	1056.9	1067.1	1065.1
5°	1067.1	1063.0	1051.8	1060.0	1057.9
7.5°	1060.0	1053.8	1042.5	1050.7	1048.7
10°	1048.7	1041.5	1029.2	1037.4	1034.3
12.5°	1033.3	1027.1	1014.8	1019.9	1017.9
15°	1015.8	1009.7	996.3	1000.5	995.3
17.5°	994.3	988.1	974.8	979.9	974.8
20°	970.7	964.5	950.2	953.3	949.1
22.5°	947.1	937.9	924.5	924.5	922.5
25°	919.4	911.2	893.7	895.8	893.7
27.5°	888.6	881.4	868.1	865.0	859.9
30°	857.8	849.6	834.2	831.1	827.0
32.5°	825.0	818.8	802.4	796.3	792.2
35°	793.2	782.9	766.5	760.3	755.2
37.5°	757.3	748.0	731.6	724.4	719.3
40°	720.3	712.1	695.7	686.5	682.4
42.5°	684.4	676.2	659.8	649.5	643.4
45°	645.4	638.2	622.8	611.6	607.5
47.5°	607.5	600.3	583.9	572.6	566.4
50°	567.4	562.3	547.9	533.6	528.4
52.5°	528.4	521.3	507.9	496.6	489.5
55°	488.4	482.3	470.0	457.6	452.5
57.5°	448.4	443.3	429.9	417.6	413.5
60°	408.4	404.3	389.9	378.6	375.6
62.5°	369.4	362.2	352.0	341.7	337.6
65°	329.4	323.2	313.0	303.7	298.6
67.5°	288.3	283.2	274.0	266.8	262.7
70°	250.4	246.3	237.0	229.8	225.7
72.5°	211.4	207.3	202.1	195.0	191.9
75°	172.4	170.3	165.2	159.0	161.1
77.5°	137.5	133.4	131.3	128.3	125.2
80°	102.6	101.6	99.5	96.5	94.4
82.5°	69.8	69.8	68.7	64.6	64.6
85°	42.1	41.0	40.0	36.9	35.9
87.5°	18.5	16.4	14.4	11.3	10.3
90°	1.2	15.1	40.6	38.3	39.5
92.5°	25.5	34.8	36.0	37.1	37.1
95°	60.4	72.0	74.3	74.3	72.0
97.5°	101.0	111.4	116.1	116.1	116.1
100°	147.4	156.7	160.2	160.2	159.0
102.5°	196.2	203.2	207.8	209.0	207.8
105°	249.6	253.1	255.4	257.7	257.7
107.5°	303.0	307.6	307.6	308.8	303.0
110°	354.1	361.0	361.0	361.0	357.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	409.8	416.8	415.6	412.1	409.8
115°	464.4	471.3	469.0	467.8	464.4
117.5°	518.9	528.2	522.4	518.9	515.4
120°	573.5	582.8	573.5	573.5	570.0
122.5°	623.4	635.0	629.2	625.7	623.4
125°	675.6	686.1	682.6	679.1	678.0
127.5°	726.7	739.5	734.8	730.2	726.7
130°	774.3	789.4	787.1	784.8	780.1
132.5°	827.7	839.3	840.5	834.7	831.2
135°	874.2	886.9	889.2	888.1	884.6
137.5°	925.2	935.7	938.0	936.8	932.2
140°	970.5	981.0	986.8	986.8	982.1
142.5°	1016.9	1027.4	1030.9	1032.0	1027.4
145°	1061.1	1069.2	1076.1	1077.3	1072.7
147.5°	1100.5	1111.0	1115.6	1117.9	1113.3
150°	1141.2	1148.1	1152.8	1156.3	1152.8
152.5°	1177.1	1184.1	1189.9	1194.6	1189.9
155°	1213.1	1216.6	1220.1	1225.9	1222.4
157.5°	1244.5	1246.8	1249.1	1257.2	1251.4
160°	1272.3	1274.7	1275.8	1282.8	1278.1
162.5°	1297.9	1297.9	1299.0	1307.2	1301.4
165°	1319.9	1318.8	1318.8	1326.9	1321.1
167.5°	1339.7	1336.2	1336.2	1344.3	1338.5
170°	1354.8	1351.3	1350.1	1358.2	1351.3
172.5°	1365.2	1361.7	1360.6	1368.7	1361.7
175°	1373.3	1369.9	1367.5	1375.7	1368.7
177.5°	1378.0	1374.5	1372.2	1379.1	1372.2
180°	1375.7	1375.7	1375.7	1375.7	1375.7

(END OF REPORT)