

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: P1008157

Luminaire Tested: S122DIP-B675D1080UB2750-4F0-XX-W2A-F_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008157
REPORT IS A COMBINATION OF REPORTS P984440 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D1080UB2750-4F0-XX-W2A-F_4000K
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

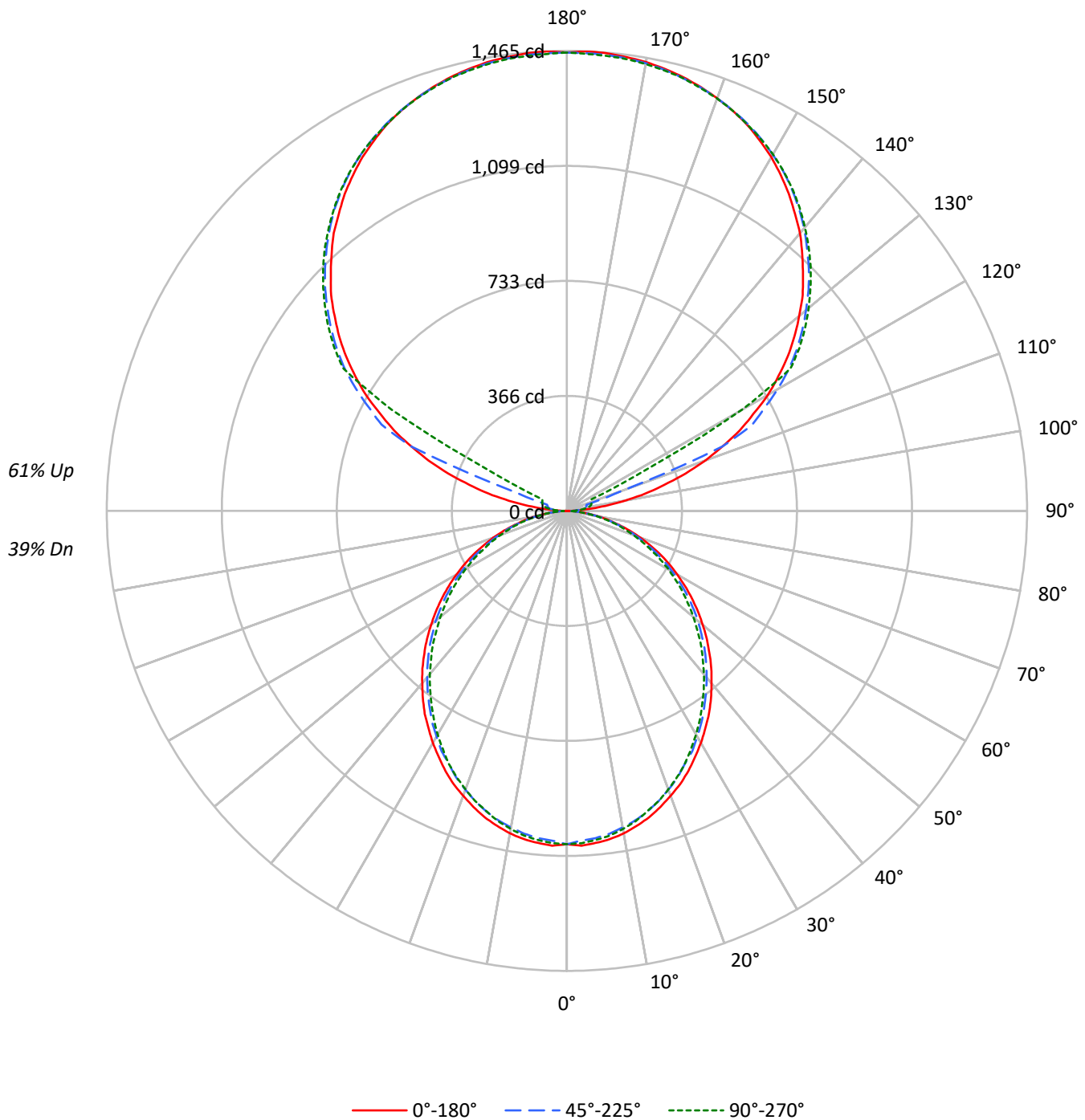
Lumens per Lamp: N/A
Luminaire Lumens: 6982.0 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	50	30	10
RCR																				
0	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46			39
1	95	91	87	84	86	83	80	77	67	65	63	53	52	51	40	39	39			33
2	87	79	73	68	79	72	67	63	59	55	52	47	44	42	36	34	33			27
3	79	70	63	57	72	64	57	52	52	48	44	41	38	36	32	29	28			23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	31	28	26	24			20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21			17
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	20	18			15
7	56	44	37	31	51	41	34	29	34	28	25	27	23	20	21	18	16			13
8	52	40	33	27	47	37	30	25	31	25	22	25	21	18	19	17	15			12
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13			11
10	45	34	26	22	41	31	25	20	26	21	17	21	17	15	16	14	12			10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16800	16800	16800
5°	16827	16012	15899
10°	16689	15283	14979
15°	16445	14547	14012
20°	16114	13747	13096
25°	15785	12913	12182
30°	15371	12127	11222
35°	14981	11300	10279
40°	14497	10483	9388
45°	14019	9672	8515
50°	13494	8847	7608
55°	12942	7966	6749
60°	12323	7011	5857
65°	11646	6040	4917
70°	10783	4978	3972
75°	9588	3838	3066
80°	8143	2609	1974
85°	5905	1214	839

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14019 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	1.4
10°-20°	281.0	4.0
20°-30°	413.0	5.9
30°-40°	479.7	6.9
40°-50°	479.1	6.9
50°-60°	417.7	6.0
60°-70°	308.8	4.4
70°-80°	174.7	2.5
80°-90°	48.7	0.7
90°-100°	48.1	0.7
100°-110°	179.4	2.6
110°-120°	475.9	6.8
120°-130°	789.3	11.3
130°-140°	838.4	12.0
140°-150°	779.2	11.2
150°-160°	626.5	9.0
160°-170°	403.7	5.8
170°-180°	138.9	2.0
0°-30°	793.9	11.4
0°-40°	1273.6	18.2
0°-60°	2170.4	31.1
0°-90°	2702.6	38.7
90°-120°	703.5	10.1
90°-150°	3110.3	44.5
90°-180°	4279.0	61.3
0°-180°	6982.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1061	1061	1061	1061	1061	
5°	1061	1057	1046	1054	1052	101
15°	1010	1004	991	995	990	285
25°	914	906	889	891	889	421
35°	789	779	762	756	751	493
45°	642	635	619	608	604	495
55°	486	480	467	455	450	434
65°	328	321	311	302	297	324
75°	171	169	164	158	160	183
85°	42	41	40	37	36	47
90°	1	13	21	26	28	6
95°	69	34	41	46	45	81
105°	321	353	64	76	80	343
115°	607	625	652	163	87	598
125°	859	872	892	900	903	766
135°	1063	1080	1089	1100	1097	821
145°	1233	1232	1250	1257	1252	771
155°	1357	1348	1360	1367	1358	625
165°	1430	1424	1427	1434	1427	404
175°	1463	1456	1458	1465	1454	139
180°	1460	1460	1460	1460	1460	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1061.3	1061.3	1061.3	1061.3	1061.3
2.5°	1067.4	1062.3	1051.0	1061.3	1059.2
5°	1061.3	1057.2	1045.9	1054.1	1052.1
7.5°	1054.1	1048.0	1036.8	1044.9	1042.9
10°	1042.9	1035.7	1023.5	1031.7	1028.6
12.5°	1027.6	1021.5	1009.2	1014.3	1012.3
15°	1010.2	1004.1	990.8	994.9	989.8
17.5°	988.8	982.7	969.4	974.5	969.4
20°	965.3	959.2	944.9	948.0	943.9
22.5°	941.9	932.7	919.4	919.4	917.4
25°	914.3	906.1	888.8	890.8	888.8
27.5°	883.7	876.6	863.3	860.2	855.1
30°	853.1	844.9	829.6	826.6	822.5
32.5°	820.4	814.3	798.0	791.9	787.8
35°	788.8	778.6	762.3	756.1	751.0
37.5°	753.1	743.9	727.6	720.4	715.3
40°	716.3	708.2	691.9	682.7	678.6
42.5°	680.6	672.5	656.1	645.9	639.8
45°	641.9	634.7	619.4	608.2	604.1
47.5°	604.1	597.0	580.6	569.4	563.3
50°	564.3	559.2	544.9	530.6	525.5
52.5°	525.5	518.4	505.1	493.9	486.7
55°	485.7	479.6	467.4	455.1	450.0
57.5°	445.9	440.8	427.6	415.3	411.2
60°	406.1	402.1	387.8	376.5	373.5
62.5°	367.4	360.2	350.0	339.8	335.7
65°	327.6	321.4	311.2	302.0	296.9
67.5°	286.7	281.6	272.5	265.3	261.2
70°	249.0	244.9	235.7	228.6	224.5
72.5°	210.2	206.1	201.0	193.9	190.8
75°	171.4	169.4	164.3	158.2	160.2
77.5°	136.7	132.7	130.6	127.6	124.5
80°	102.0	101.0	99.0	95.9	93.9
82.5°	69.4	69.4	68.4	64.3	64.3
85°	41.8	40.8	39.8	36.7	35.7
87.5°	18.4	16.3	14.3	11.2	10.2
90°	1.1	12.7	21.1	26.4	28.5
92.5°	26.4	22.2	25.3	27.5	28.5
95°	68.7	33.8	41.2	46.5	45.4
97.5°	123.6	37.0	53.9	57.0	58.1
100°	187.0	42.2	60.2	68.7	70.8
102.5°	256.7	254.6	62.3	73.9	77.1
105°	321.1	352.8	64.4	76.0	80.3
107.5°	396.1	422.5	66.5	78.2	82.4
110°	467.9	490.1	184.8	79.2	83.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	535.5	554.5	536.6	81.3	84.5
115°	607.3	625.3	651.7	162.7	86.6
117.5°	669.7	690.8	708.7	557.7	281.0
120°	739.4	755.2	774.2	786.9	644.3
122.5°	798.5	815.4	836.5	842.9	843.9
125°	858.7	872.5	892.5	899.9	903.1
127.5°	913.7	928.4	944.3	954.8	955.9
130°	965.4	982.3	993.9	1005.5	1004.5
132.5°	1018.2	1032.0	1043.6	1053.1	1052.0
135°	1062.6	1079.5	1089.0	1099.6	1097.4
137.5°	1109.1	1121.7	1132.3	1142.9	1139.7
140°	1154.5	1162.9	1174.5	1184.1	1178.8
142.5°	1192.5	1199.9	1213.6	1222.1	1216.8
145°	1232.6	1231.6	1249.5	1256.9	1251.7
147.5°	1267.5	1264.3	1282.3	1287.6	1283.3
150°	1301.3	1293.9	1310.8	1317.1	1311.9
152.5°	1329.8	1321.4	1337.2	1343.5	1336.2
155°	1357.3	1347.8	1360.4	1366.8	1358.3
157.5°	1379.5	1371.0	1380.5	1387.9	1379.5
160°	1398.5	1392.1	1398.5	1404.8	1397.4
162.5°	1415.4	1409.0	1414.3	1421.7	1412.2
165°	1430.2	1423.8	1427.0	1434.4	1427.0
167.5°	1441.8	1435.4	1438.6	1446.0	1436.5
170°	1451.3	1444.9	1447.1	1454.5	1444.9
172.5°	1457.6	1451.3	1453.4	1460.8	1451.3
175°	1462.9	1455.5	1457.6	1465.0	1454.5
177.5°	1465.0	1457.6	1458.7	1466.1	1456.6
180°	1459.7	1459.7	1459.7	1459.7	1459.7

(END OF REPORT)