

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: P1008227

Luminaire Tested: S122DIP-B865D1080UB2750-4F0-XX-W2A-D_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008227
REPORT IS A COMBINATION OF REPORTS P984735 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D1080UB2750-4F0-XX-W2A-D_4000K
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

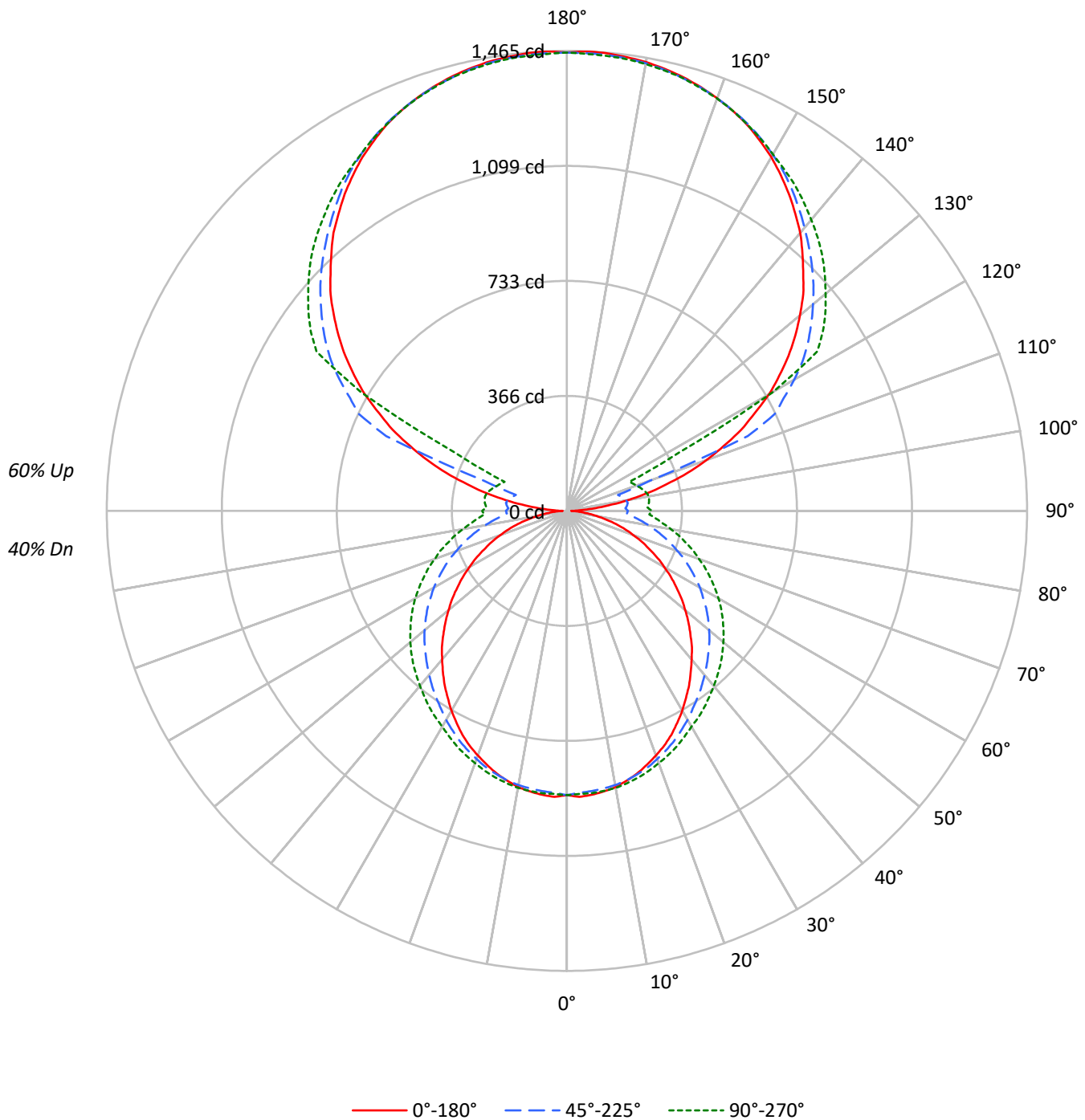
Lumens per Lamp: N/A
Luminaire Lumens: 7735.0 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 81.8
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

TEST NUMBER: P1008227

CATALOG NUMBER: S122DIP-B865D1080UB2750-4F0-XX-W2A-D_4000K

Luminous Intensity Polar Plot



TEST NUMBER: P1008227

CATALOG NUMBER: S122DIP-B865D1080UB2750-4F0-XX-W2A-D_4000K

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	95	95	95	95	78	78	78	61	61	61	47	47	47
1	94	90	85	81	85	81	78	74	66	64	61	52	50	49	39	38	37
2	85	77	71	65	77	70	65	60	57	53	50	45	42	40	34	32	30
3	78	68	60	54	70	62	55	50	50	45	41	39	36	33	30	27	25
4	71	60	51	45	64	54	47	42	44	39	35	35	31	28	26	24	21
5	65	53	45	38	58	48	41	35	39	34	30	31	27	24	24	21	18
6	59	47	39	33	54	43	36	31	35	30	26	28	24	21	21	18	16
7	55	42	34	29	50	39	32	27	32	26	22	25	21	18	19	16	14
8	51	38	31	25	46	35	28	23	29	24	20	23	19	16	18	15	13
9	47	35	27	22	43	32	25	21	26	21	18	21	17	14	16	13	11
10	44	32	25	20	40	29	23	18	24	19	16	20	16	13	15	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14326	14326	14326
5°	14390	13714	13636
10°	14294	13239	13046
15°	14091	12747	12439
20°	13837	12231	11864
25°	13585	11737	11343
30°	13234	11236	10827
35°	12878	10751	10447
40°	12502	10333	10070
45°	12145	9953	9742
50°	11761	9603	9417
55°	11357	9232	9087
60°	10863	8845	8741
65°	10352	8400	8341
70°	9770	7922	7911
75°	9023	7444	7505
80°	7856	6946	7087
85°	6667	6480	6723

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12145 cd/sqm

TEST NUMBER: P1008227

CATALOG NUMBER: S122DIP-B865D1080UB2750-4F0-XX-W2A-D_4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	1.1
10°-20°	246.0	3.2
20°-30°	372.8	4.8
30°-40°	454.0	5.9
40°-50°	488.4	6.3
50°-60°	474.4	6.1
60°-70°	414.3	5.4
70°-80°	318.8	4.1
80°-90°	216.1	2.8
90°-100°	195.5	2.5
100°-110°	287.0	3.7
110°-120°	546.9	7.1
120°-130°	828.8	10.7
130°-140°	855.0	11.1
140°-150°	782.0	10.1
150°-160°	626.5	8.1
160°-170°	403.7	5.2
170°-180°	138.9	1.8
0°-30°	704.6	9.1
0°-40°	1158.6	15.0
0°-60°	2121.4	27.4
0°-90°	3070.6	39.7
90°-120°	1029.4	13.3
90°-150°	3495.3	45.2
90°-180°	4664.0	60.3
0°-180°	7735.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	905	905	905	905	905	
5°	908	904	896	904	902	86
15°	866	868	868	880	879	244
25°	787	796	808	824	828	362
35°	678	700	725	754	763	424
45°	556	592	637	678	691	429
55°	426	474	542	589	606	381
65°	291	355	433	487	504	289
75°	161	235	319	375	392	171
85°	47	128	212	268	286	50
90°	14	102	194	252	270	13
95°	79	106	192	247	262	90
105°	328	397	177	235	253	351
115°	612	645	730	281	219	603
125°	861	875	937	980	995	769
135°	1064	1081	1103	1142	1150	822
145°	1233	1232	1250	1265	1266	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	

TEST NUMBER: P1008227

CATALOG NUMBER: S122DIP-B865D1080UB2750-4F0-XX-W2A-D_4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	905.0	905.0	905.0	905.0	905.0
2.5°	911.5	907.6	898.4	905.0	902.3
5°	907.6	903.6	895.8	903.6	902.3
7.5°	901.0	898.4	891.8	901.0	899.7
10°	893.2	890.5	886.6	897.1	895.8
12.5°	880.0	881.3	878.7	889.2	887.9
15°	865.6	868.2	868.2	880.0	878.7
17.5°	847.2	852.5	856.4	868.2	868.2
20°	828.9	835.4	840.7	855.1	855.1
22.5°	809.2	817.1	825.0	839.4	842.0
25°	786.9	796.1	807.9	823.6	827.6
27.5°	760.7	775.1	788.2	807.9	810.5
30°	734.5	751.5	768.6	789.5	793.5
32.5°	705.6	725.3	746.3	771.2	779.1
35°	678.1	700.4	725.3	754.1	763.3
37.5°	647.9	672.8	704.3	735.8	745.0
40°	617.7	646.6	682.0	716.1	727.9
42.5°	588.9	617.7	659.7	697.7	709.5
45°	556.1	591.5	637.4	678.1	691.2
47.5°	524.6	562.6	615.1	657.1	671.5
50°	491.8	532.5	591.5	636.1	650.5
52.5°	460.3	503.6	566.6	612.5	628.2
55°	426.2	473.5	541.7	588.9	605.9
57.5°	393.5	445.9	514.1	565.3	582.3
60°	358.0	414.4	489.2	539.0	557.4
62.5°	326.6	385.6	460.3	514.1	531.2
65°	291.2	355.4	432.8	486.6	503.6
67.5°	259.7	326.6	405.3	459.0	477.4
70°	225.6	293.8	375.1	431.5	447.2
72.5°	194.1	264.9	347.6	402.6	422.3
75°	161.3	234.8	318.7	375.1	392.1
77.5°	129.8	205.9	291.2	347.6	365.9
80°	98.4	178.4	263.6	318.7	337.1
82.5°	72.1	150.8	237.4	292.5	309.5
85°	47.2	128.5	212.5	267.6	285.9
87.5°	28.9	107.5	191.5	245.3	262.3
90°	14.2	101.9	194.2	252.0	269.8
92.5°	38.2	103.5	186.6	240.0	256.7
95°	79.2	105.9	192.0	247.2	261.8
97.5°	132.8	102.6	195.5	247.2	264.0
100°	196.2	99.9	191.4	248.4	264.9
102.5°	264.6	305.7	184.3	243.1	260.7
105°	327.7	397.4	177.2	234.7	253.4
107.5°	402.7	460.5	170.1	226.4	245.0
110°	473.1	521.6	280.5	216.9	235.5

TEST NUMBER: P1008227

CATALOG NUMBER: S122DIP-B865D1080UB2750-4F0-XX-W2A-D_4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	540.7	580.7	623.2	209.8	227.5
115°	612.5	645.0	730.4	280.7	219.1
117.5°	673.6	705.2	778.2	666.6	403.0
120°	743.3	764.4	835.8	885.3	757.1
122.5°	802.4	820.6	890.3	932.1	944.9
125°	861.3	875.1	937.1	979.9	994.9
127.5°	916.3	929.7	981.0	1024.3	1037.2
130°	968.0	983.6	1022.8	1065.8	1075.3
132.5°	1020.8	1033.3	1064.6	1104.2	1113.6
135°	1063.9	1080.8	1103.4	1141.6	1149.9
137.5°	1110.4	1123.0	1140.2	1175.7	1181.7
140°	1155.8	1162.9	1177.1	1207.7	1210.3
142.5°	1193.8	1199.9	1213.6	1237.8	1239.1
145°	1232.6	1231.6	1249.5	1264.8	1266.1
147.5°	1267.5	1264.3	1282.3	1288.9	1288.5
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)