

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: P1009447

Luminaire Tested: S122DIP-B865D1080UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009447
REPORT IS A COMBINATION OF REPORTS P984748 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D1080UB30-4F0-XX-W2A-F
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

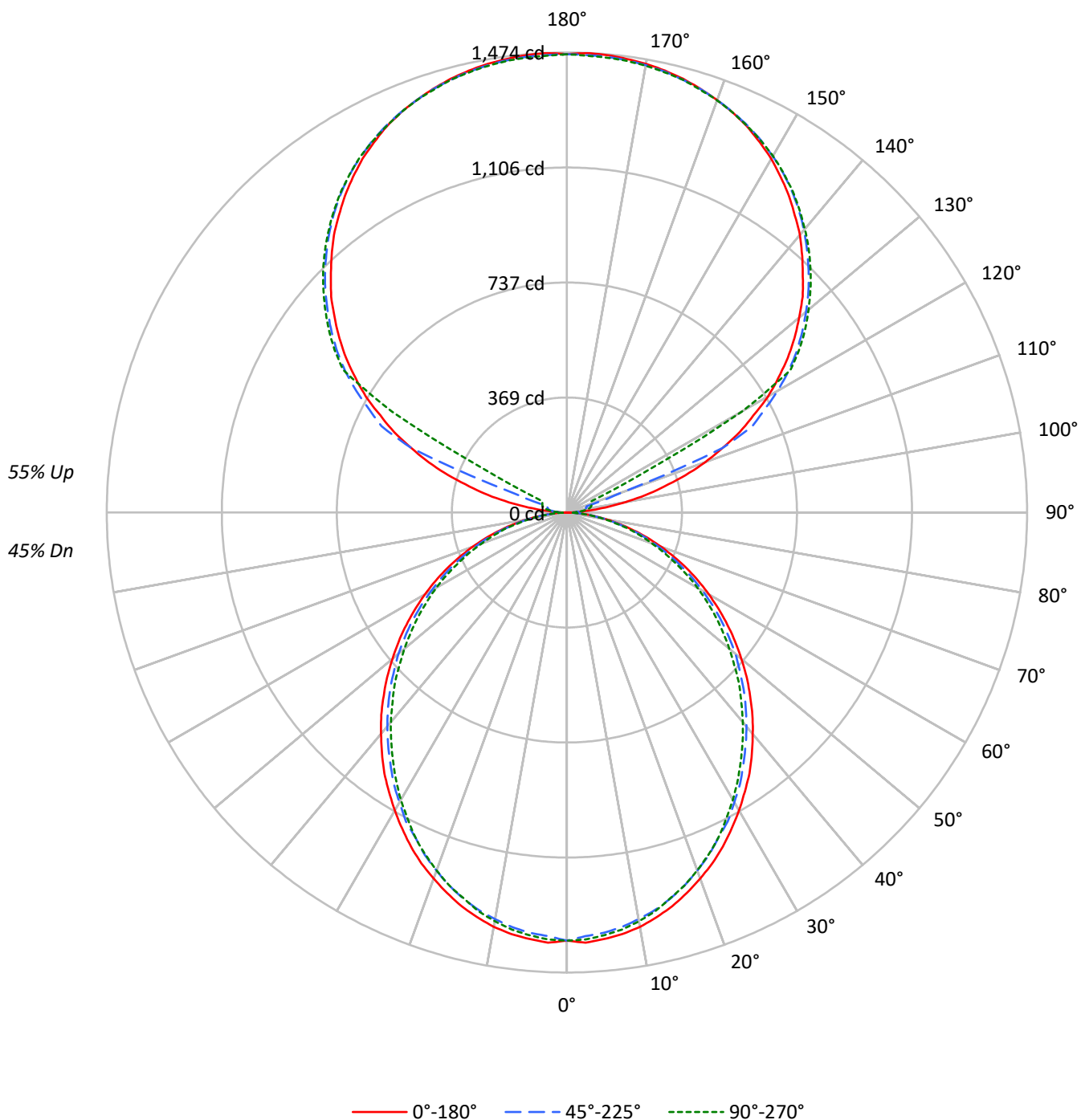
Lumens per Lamp: N/A
Luminaire Lumens: 7797.0 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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

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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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	97	92	88	85	88	85	81	78	70	68	66	57	56	54	45	44	43
2	88	81	75	69	80	74	69	64	62	58	55	50	48	45	40	38	37
3	80	71	64	58	73	65	59	54	54	50	46	45	41	38	35	33	31
4	73	63	55	49	67	58	51	46	48	43	39	40	36	33	32	29	27
5	67	56	48	42	61	51	44	39	43	38	34	36	32	28	28	26	23
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	21
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	21	18
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16
9	49	37	30	25	45	35	28	23	29	24	21	25	21	18	20	17	15
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	19	16	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21715	21715	21715
5°	21750	20698	20551
10°	21572	19755	19363
15°	21257	18804	18112
20°	20830	17770	16928
25°	20403	16691	15747
30°	19868	15677	14505
35°	19364	14605	13287
40°	18739	13549	12135
45°	18121	12501	11007
50°	17443	11436	9834
55°	16728	10296	8724
60°	15931	9062	7571
65°	15052	7808	6357
70°	13936	6435	5134
75°	12396	4961	3964
80°	10531	3370	2550
85°	7642	1567	1086

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 18121 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.1	1.7
10°-20°	363.3	4.7
20°-30°	533.8	6.8
30°-40°	620.0	8.0
40°-50°	619.2	7.9
50°-60°	540.0	6.9
60°-70°	399.1	5.1
70°-80°	225.8	2.9
80°-90°	62.2	0.8
90°-100°	48.4	0.6
100°-110°	180.5	2.3
110°-120°	478.7	6.1
120°-130°	793.9	10.2
130°-140°	843.3	10.8
140°-150°	783.8	10.1
150°-160°	630.1	8.1
160°-170°	406.0	5.2
170°-180°	139.7	1.8
0°-30°	1026.2	13.2
0°-40°	1646.2	21.1
0°-60°	2805.4	36.0
0°-90°	3492.6	44.8
90°-120°	707.6	9.1
90°-150°	3128.5	40.1
90°-180°	4304.0	55.2
0°-180°	7797.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1372	1372	1372	1372	1372	
5°	1372	1366	1352	1362	1360	130
15°	1306	1298	1281	1286	1279	368
25°	1182	1171	1149	1152	1149	544
35°	1020	1006	985	977	971	637
45°	830	820	801	786	781	640
55°	628	620	604	588	582	561
65°	423	416	402	390	384	419
75°	222	219	212	204	207	236
85°	54	53	51	48	46	60
90°	1	13	21	27	29	7
95°	69	34	41	47	46	82
105°	323	355	65	76	81	345
115°	611	629	656	164	87	601
125°	864	878	898	905	908	770
135°	1069	1086	1095	1106	1104	826
145°	1240	1239	1257	1264	1259	775
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°	1371.8	1371.8	1371.8	1371.8	1371.8
2.5°	1379.7	1373.1	1358.6	1371.8	1369.1
5°	1371.8	1366.5	1352.0	1362.5	1359.9
7.5°	1362.5	1354.6	1340.1	1350.7	1348.0
10°	1348.0	1338.8	1323.0	1333.5	1329.6
12.5°	1328.2	1320.3	1304.5	1311.1	1308.5
15°	1305.8	1297.9	1280.8	1286.0	1279.4
17.5°	1278.1	1270.2	1253.1	1259.7	1253.1
20°	1247.8	1239.9	1221.4	1225.4	1220.1
22.5°	1217.4	1205.6	1188.4	1188.4	1185.8
25°	1181.8	1171.3	1148.9	1151.5	1148.9
27.5°	1142.3	1133.0	1115.9	1111.9	1105.3
30°	1102.7	1092.1	1072.4	1068.4	1063.1
32.5°	1060.5	1052.6	1031.5	1023.6	1018.3
35°	1019.6	1006.4	985.3	977.4	970.8
37.5°	973.4	961.6	940.5	931.2	924.6
40°	925.9	915.4	894.3	882.4	877.1
42.5°	879.8	869.2	848.1	834.9	827.0
45°	829.7	820.4	800.6	786.1	780.9
47.5°	780.9	771.6	750.5	736.0	728.1
50°	729.4	722.8	704.4	685.9	679.3
52.5°	679.3	670.1	652.9	638.4	629.2
55°	627.8	619.9	604.1	588.3	581.7
57.5°	576.4	569.8	552.7	536.8	531.6
60°	525.0	519.7	501.2	486.7	482.8
62.5°	474.8	465.6	452.4	439.2	434.0
65°	423.4	415.5	402.3	390.4	383.8
67.5°	370.6	364.0	352.2	342.9	337.7
70°	321.8	316.6	304.7	295.5	290.2
72.5°	271.7	266.4	259.8	250.6	246.7
75°	221.6	219.0	212.4	204.4	207.1
77.5°	176.7	171.5	168.8	164.9	160.9
80°	131.9	130.6	127.9	124.0	121.3
82.5°	89.7	89.7	88.4	83.1	83.1
85°	54.1	52.8	51.4	47.5	46.2
87.5°	23.7	21.1	18.5	14.5	13.2
90°	1.1	12.7	21.2	26.6	28.7
92.5°	26.6	22.3	25.5	27.6	28.7
95°	69.1	34.0	41.4	46.7	45.7
97.5°	124.3	37.2	54.2	57.4	58.4
100°	188.0	42.5	60.6	69.1	71.2
102.5°	258.2	256.0	62.7	74.4	77.6
105°	323.0	354.8	64.8	76.5	80.7
107.5°	398.4	425.0	66.9	78.6	82.9
110°	470.6	493.0	185.9	79.7	83.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	538.6	557.8	539.7	81.8	85.0
115°	610.9	628.9	655.5	163.6	87.1
117.5°	673.6	694.8	712.9	561.0	282.6
120°	743.7	759.6	778.8	791.5	648.1
122.5°	803.2	820.2	841.4	847.8	848.9
125°	863.7	877.6	897.7	905.2	908.4
127.5°	919.0	933.9	949.8	960.4	961.5
130°	971.0	988.0	999.7	1011.4	1010.4
132.5°	1024.2	1038.0	1049.7	1059.2	1058.2
135°	1068.8	1085.8	1095.3	1106.0	1103.8
137.5°	1115.5	1128.3	1138.9	1149.5	1146.3
140°	1161.2	1169.7	1181.4	1191.0	1185.7
142.5°	1199.5	1206.9	1220.7	1229.2	1223.9
145°	1239.8	1238.8	1256.8	1264.3	1259.0
147.5°	1274.9	1271.7	1289.8	1295.1	1290.8
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)