

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: P1008991

Luminaire Tested: S122DIP-B485D1080UB27-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008991
REPORT IS A COMBINATION OF REPORTS P984121 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D1080UB27-4F0-XX-W2A-D
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

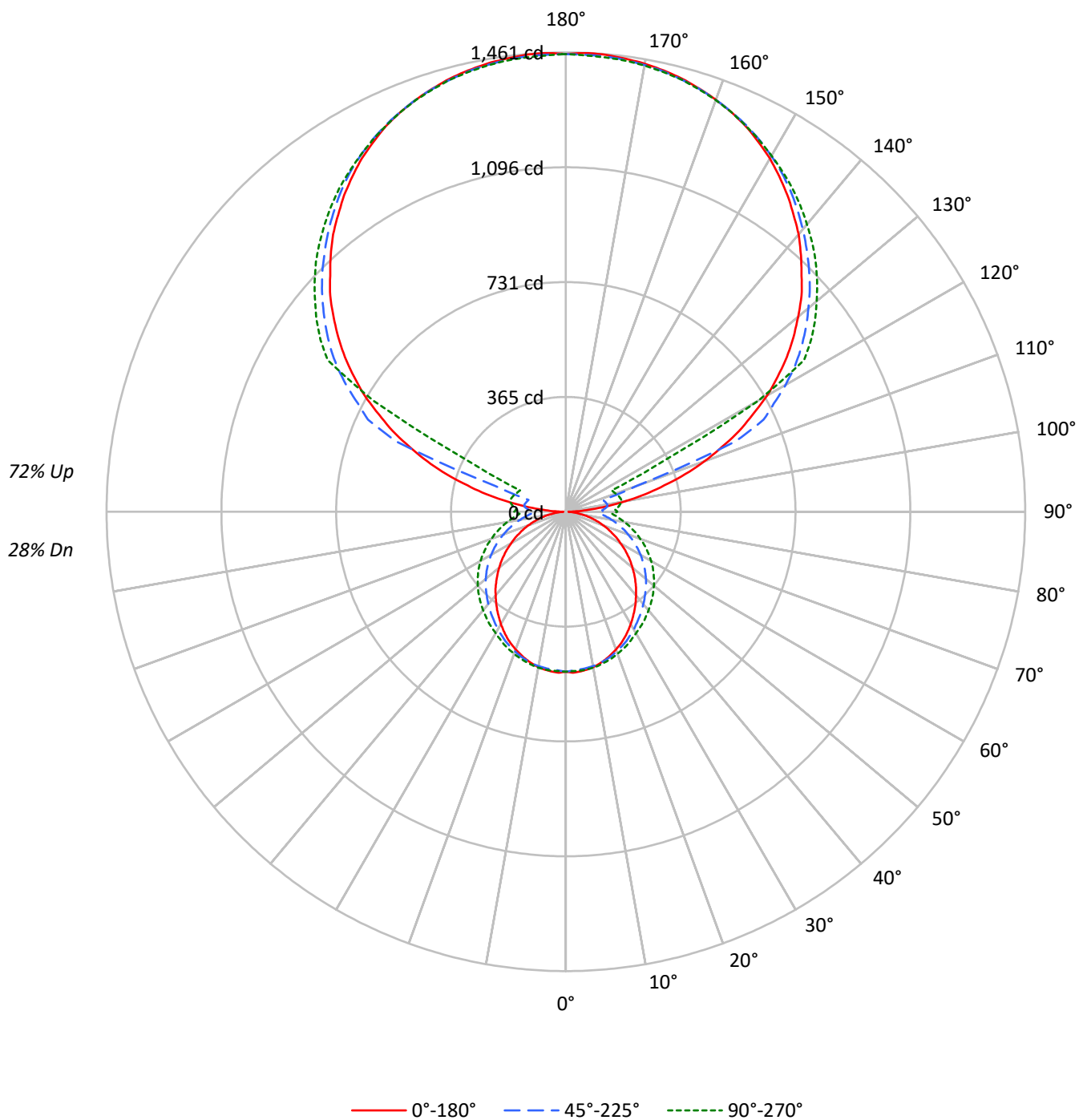
Lumens per Lamp: N/A
Luminaire Lumens: 6211.0 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 59
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
RCR																	
0	102	102	102	102	91	91	91	91	71	71	71		53	53	53		36
1	92	87	83	80	82	78	75	72	61	58	56		45	43	42		30
2	83	76	70	64	74	68	63	58	53	49	46		39	36	34		26
3	76	66	59	53	67	59	53	48	46	42	38		34	31	29		23
4	69	58	51	45	61	52	46	40	41	36	32		30	27	24		20
5	63	52	44	38	56	46	39	34	36	31	27		27	23	21		18
6	58	46	38	32	52	41	35	29	33	27	24		24	21	18		16
7	54	41	34	28	48	37	30	26	29	24	21		22	18	16		15
8	50	37	30	25	44	34	27	22	27	22	18		20	16	14		14
9	46	34	27	22	41	31	24	20	24	19	16		18	15	12		12
10	43	31	24	19	38	28	22	18	22	18	14		17	13	11		12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8052	8052	8052
5°	8089	7708	7665
10°	8035	7442	7332
15°	7921	7166	6992
20°	7777	6876	6670
25°	7636	6597	6376
30°	7440	6315	6085
35°	7240	6043	5873
40°	7027	5809	5661
45°	6827	5595	5476
50°	6612	5398	5294
55°	6384	5190	5108
60°	6108	4972	4913
65°	5819	4722	4689
70°	5491	4454	4447
75°	5074	4184	4219
80°	4415	3905	3984
85°	3743	3641	3779

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6827 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.2	0.8
10°-20°	138.3	2.2
20°-30°	209.6	3.4
30°-40°	255.2	4.1
40°-50°	274.6	4.4
50°-60°	266.6	4.3
60°-70°	232.9	3.7
70°-80°	179.2	2.9
80°-90°	122.6	2.0
90°-100°	130.8	2.1
100°-110°	239.4	3.9
110°-120°	514.5	8.3
120°-130°	809.3	13.0
130°-140°	845.4	13.6
140°-150°	778.6	12.5
150°-160°	624.7	10.1
160°-170°	402.5	6.5
170°-180°	138.5	2.2
0°-30°	396.1	6.4
0°-40°	651.3	10.5
0°-60°	1192.5	19.2
0°-90°	1727.2	27.8
90°-120°	884.7	14.2
90°-150°	3318.0	53.4
90°-180°	4484.0	72.2
0°-180°	6211.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	509	509	509	509	509	
5°	510	508	504	508	507	48
15°	487	488	488	495	494	137
25°	442	448	454	463	465	203
35°	381	394	408	424	429	238
45°	313	332	358	381	388	241
55°	240	266	304	331	341	214
65°	164	200	243	274	283	163
75°	91	132	179	211	220	96
85°	26	72	119	150	161	28
90°	8	63	118	153	164	9
95°	74	74	126	159	167	86
105°	324	377	128	165	177	346
115°	608	635	694	229	161	599
125°	858	872	915	942	952	765
135°	1060	1077	1094	1120	1124	819
145°	1229	1228	1246	1258	1256	769
155°	1354	1344	1357	1363	1354	624
165°	1426	1420	1423	1430	1423	403
175°	1459	1451	1454	1461	1450	139
180°	1456	1456	1456	1456	1456	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	508.7	508.7	508.7	508.7	508.7
2.5°	512.4	510.2	505.0	508.7	507.2
5°	510.2	508.0	503.5	508.0	507.2
7.5°	506.5	505.0	501.3	506.5	505.7
10°	502.1	500.6	498.4	504.3	503.5
12.5°	494.7	495.4	493.9	499.8	499.1
15°	486.6	488.1	488.1	494.7	493.9
17.5°	476.3	479.2	481.4	488.1	488.1
20°	465.9	469.6	472.6	480.7	480.7
22.5°	454.9	459.3	463.7	471.8	473.3
25°	442.3	447.5	454.1	463.0	465.2
27.5°	427.6	435.7	443.1	454.1	455.6
30°	412.9	422.4	432.0	443.8	446.0
32.5°	396.6	407.7	419.5	433.5	437.9
35°	381.2	393.7	407.7	423.9	429.1
37.5°	364.2	378.2	395.9	413.6	418.8
40°	347.2	363.5	383.4	402.5	409.2
42.5°	331.0	347.2	370.8	392.2	398.8
45°	312.6	332.5	358.3	381.2	388.5
47.5°	294.9	316.3	345.8	369.4	377.5
50°	276.5	299.3	332.5	357.6	365.7
52.5°	258.8	283.1	318.5	344.3	353.1
55°	239.6	266.1	304.5	331.0	340.6
57.5°	221.2	250.7	289.0	317.7	327.3
60°	201.3	233.0	275.0	303.0	313.3
62.5°	183.6	216.7	258.8	289.0	298.6
65°	163.7	199.8	243.3	273.5	283.1
67.5°	146.0	183.6	227.8	258.0	268.4
70°	126.8	165.1	210.9	242.6	251.4
72.5°	109.1	148.9	195.4	226.3	237.4
75°	90.7	132.0	179.1	210.9	220.4
77.5°	73.0	115.7	163.7	195.4	205.7
80°	55.3	100.3	148.2	179.1	189.5
82.5°	40.5	84.8	133.4	164.4	174.0
85°	26.5	72.2	119.4	150.4	160.7
87.5°	16.2	60.5	107.6	137.9	147.4
90°	8.5	62.7	118.4	153.1	164.1
92.5°	32.9	67.8	116.0	146.8	156.7
95°	74.4	74.2	125.9	159.1	166.9
97.5°	128.4	73.8	133.3	163.8	173.6
100°	191.6	74.5	133.7	169.5	179.7
102.5°	260.3	282.6	130.7	168.8	180.1
105°	323.9	376.9	127.7	165.0	177.3
107.5°	398.7	442.7	124.6	161.2	173.6
110°	469.5	506.4	238.1	156.4	168.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	536.9	567.7	583.8	153.3	164.7
115°	608.5	634.6	694.1	228.6	160.9
117.5°	670.0	697.0	745.9	617.3	348.8
120°	739.5	758.3	806.8	840.0	705.9
122.5°	798.5	816.0	864.4	890.6	898.4
125°	857.8	871.5	915.1	942.4	952.2
127.5°	912.6	926.5	962.2	991.3	998.9
130°	964.2	980.3	1007.3	1036.6	1041.5
132.5°	1016.9	1029.8	1052.4	1078.9	1083.8
135°	1060.3	1077.2	1094.0	1120.1	1123.9
137.5°	1106.7	1119.3	1133.5	1158.1	1160.1
140°	1151.9	1159.7	1172.8	1194.0	1193.2
142.5°	1189.9	1196.5	1210.2	1227.5	1225.9
145°	1229.2	1228.1	1246.0	1257.8	1256.2
147.5°	1263.9	1260.8	1278.7	1284.7	1282.6
150°	1297.7	1290.3	1307.1	1313.5	1308.2
152.5°	1326.1	1317.7	1333.5	1339.8	1332.4
155°	1353.5	1344.0	1356.6	1363.0	1354.5
157.5°	1375.6	1367.2	1376.6	1384.0	1375.6
160°	1394.6	1388.2	1394.6	1400.9	1393.5
162.5°	1411.4	1405.1	1410.4	1417.7	1408.2
165°	1426.2	1419.8	1423.0	1430.4	1423.0
167.5°	1437.7	1431.4	1434.6	1442.0	1432.5
170°	1447.2	1440.9	1443.0	1450.4	1440.9
172.5°	1453.5	1447.2	1449.3	1456.7	1447.2
175°	1458.8	1451.4	1453.5	1460.9	1450.4
177.5°	1460.9	1453.5	1454.6	1462.0	1452.5
180°	1455.6	1455.6	1455.6	1455.6	1455.6

(END OF REPORT)