

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: P1008570

Luminaire Tested: S122DIP-B1005D1080UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008570
REPORT IS A COMBINATION OF REPORTS P983559 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D1080UB35-4F0-XX-W2A-F4
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

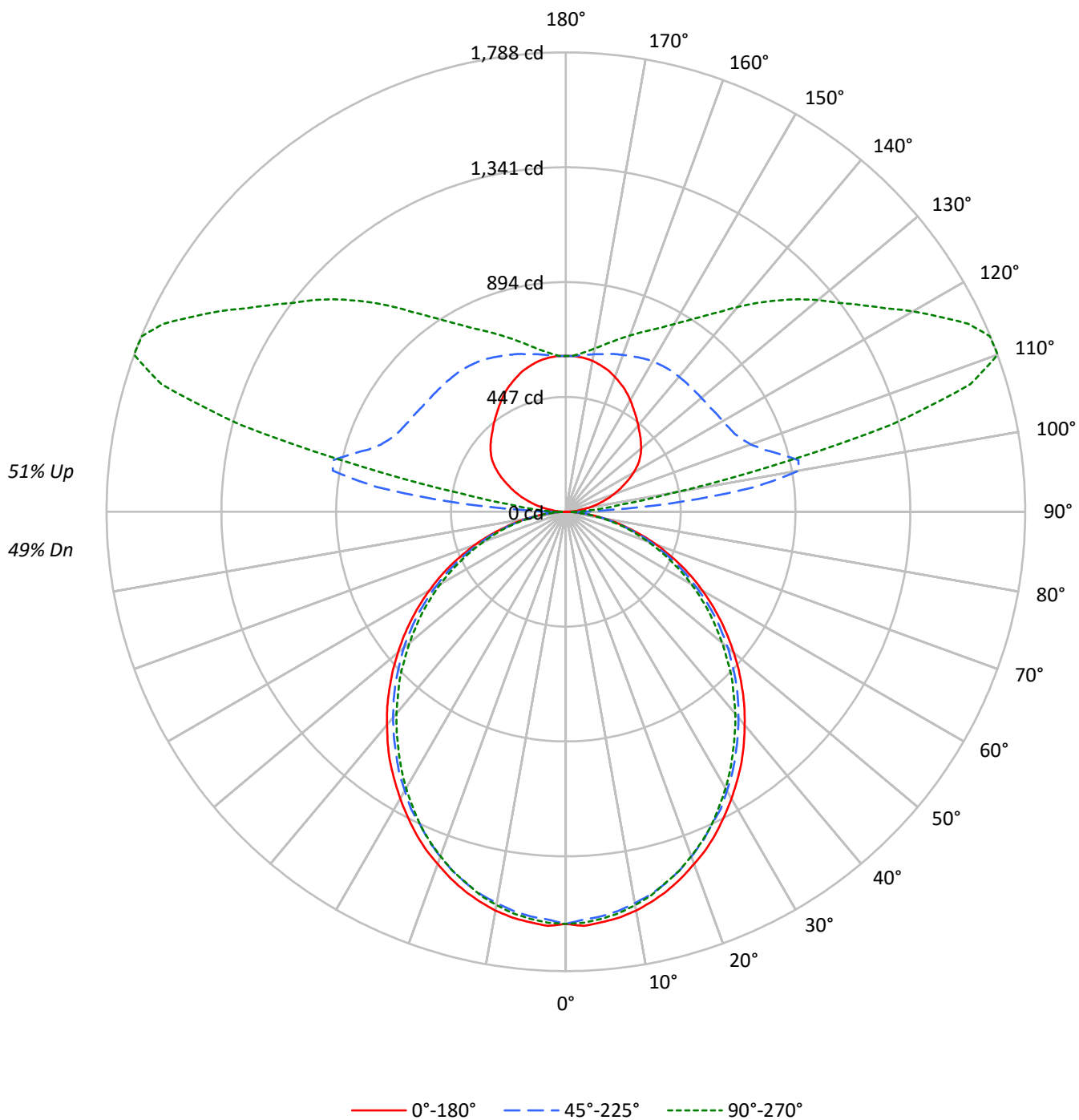
Lumens per Lamp: N/A
Luminaire Lumens: 8311.8 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 96.3
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	107	107	107	107	99	99	99	99	83	83	83		69	69	69		55
1	98	93	89	86	90	86	83	80	73	70	68		60	59	57		49
2	89	81	75	70	82	75	70	65	64	60	56		53	50	48		43
3	81	72	64	58	74	66	60	55	56	51	47		47	43	40		38
4	74	63	55	49	68	59	52	46	50	45	40		42	38	35		34
5	68	56	48	42	62	52	45	40	45	39	35		37	33	30		31
6	63	51	43	37	58	47	40	35	40	35	30		34	30	26		28
7	58	46	38	32	53	43	35	30	36	31	27		31	26	23		25
8	54	41	34	28	49	39	32	27	33	28	24		28	24	21		23
9	50	38	30	25	46	35	29	24	30	25	21		26	22	19		22
10	47	35	28	23	43	32	26	22	28	23	19		24	20	17		20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25392	25392	25392
5°	25433	24202	24031
10°	25225	23099	22641
15°	24856	21987	21179
20°	24357	20779	19795
25°	23859	19517	18413
30°	23232	18330	16963
35°	22644	17079	15537
40°	21913	15843	14190
45°	21189	14619	12870
50°	20396	13372	11499
55°	19564	12039	10202
60°	18629	10597	8852
65°	17601	9129	7433
70°	16296	7525	6002
75°	14494	5800	4636
80°	12311	3942	2983
85°	8927	1836	1270

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 21189 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.0	1.8
10°-20°	424.8	5.1
20°-30°	624.2	7.5
30°-40°	725.0	8.7
40°-50°	724.1	8.7
50°-60°	631.4	7.6
60°-70°	466.7	5.6
70°-80°	264.1	3.2
80°-90°	73.6	0.9
90°-100°	245.8	3.0
100°-110°	830.9	10.0
110°-120°	873.4	10.5
120°-130°	718.2	8.6
130°-140°	577.1	6.9
140°-150°	436.0	5.2
150°-160°	306.5	3.7
160°-170°	180.5	2.2
170°-180°	58.7	0.7
0°-30°	1200.0	14.4
0°-40°	1925.0	23.2
0°-60°	3280.5	39.5
0°-90°	4084.9	49.1
90°-120°	1950.0	23.5
90°-150°	3681.3	44.3
90°-180°	4227.0	50.9
0°-180°	8311.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1604	1604	1604	1604	1604	
5°	1604	1598	1581	1593	1590	152
15°	1527	1518	1498	1504	1496	430
25°	1382	1370	1343	1346	1343	636
35°	1192	1177	1152	1143	1135	745
45°	970	959	936	919	913	749
55°	734	725	706	688	680	656
65°	495	486	470	456	449	490
75°	259	256	248	239	242	277
85°	63	62	60	56	54	70
90°	1	16	40	38	38	7
95°	41	100	457	173	133	42
105°	142	215	864	1544	1314	151
115°	251	317	723	1492	1729	249
125°	350	414	695	1208	1403	311
135°	410	490	687	1016	1162	317
145°	469	539	683	848	928	294
155°	533	575	663	750	780	245
165°	581	598	635	674	684	164
175°	605	606	611	618	617	57
180°	606	606	606	606	606	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1604.1	1604.1	1604.1	1604.1	1604.1
2.5°	1613.3	1605.6	1588.6	1604.1	1601.0
5°	1604.1	1597.9	1580.9	1593.3	1590.2
7.5°	1593.3	1584.0	1567.0	1579.4	1576.3
10°	1576.3	1565.5	1547.0	1559.3	1554.7
12.5°	1553.2	1543.9	1525.4	1533.1	1530.0
15°	1526.9	1517.7	1497.6	1503.8	1496.1
17.5°	1494.6	1485.3	1465.3	1473.0	1465.3
20°	1459.1	1449.8	1428.2	1432.9	1426.7
22.5°	1423.6	1409.7	1389.7	1389.7	1386.6
25°	1382.0	1369.6	1343.4	1346.5	1343.4
27.5°	1335.7	1324.9	1304.8	1300.2	1292.5
30°	1289.4	1277.1	1253.9	1249.3	1243.2
32.5°	1240.1	1230.8	1206.1	1196.9	1190.7
35°	1192.3	1176.8	1152.2	1142.9	1135.2
37.5°	1138.3	1124.4	1099.7	1088.9	1081.2
40°	1082.7	1070.4	1045.7	1031.8	1025.7
42.5°	1028.8	1016.4	991.7	976.3	967.1
45°	970.2	959.4	936.2	919.3	913.1
47.5°	913.1	902.3	877.6	860.6	851.4
50°	852.9	845.2	823.6	802.0	794.3
52.5°	794.3	783.5	763.5	746.5	735.7
55°	734.2	724.9	706.4	687.9	680.2
57.5°	674.0	666.3	646.3	627.7	621.6
60°	613.9	607.7	586.1	569.1	564.5
62.5°	555.3	544.5	529.0	513.6	507.4
65°	495.1	485.8	470.4	456.5	448.8
67.5°	433.4	425.7	411.8	401.0	394.8
70°	376.3	370.2	356.3	345.5	339.3
72.5°	317.7	311.6	303.8	293.1	288.4
75°	259.1	256.0	248.3	239.1	242.2
77.5°	206.7	200.5	197.4	192.8	188.2
80°	154.2	152.7	149.6	145.0	141.9
82.5°	104.9	104.9	103.3	97.2	97.2
85°	63.2	61.7	60.2	55.5	54.0
87.5°	27.8	24.7	21.6	17.0	15.4
90°	1.2	15.8	39.6	37.9	38.5
92.5°	17.5	55.4	179.6	82.8	71.1
95°	40.8	100.3	457.0	172.6	132.9
97.5°	60.6	132.4	745.0	346.3	222.7
100°	89.8	162.0	921.1	689.7	417.4
102.5°	116.6	188.9	926.9	1165.9	813.8
105°	142.2	214.6	863.9	1544.2	1314.0
107.5°	170.2	240.2	805.6	1681.2	1650.9
110°	198.2	266.4	766.0	1659.1	1788.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	223.9	291.5	740.4	1583.8	1786.2
115°	250.7	316.6	722.9	1491.8	1729.0
117.5°	278.7	341.6	713.5	1403.8	1642.8
120°	304.3	366.1	705.4	1325.0	1560.0
122.5°	328.8	391.2	700.7	1263.8	1473.7
125°	349.8	413.9	694.9	1208.4	1402.6
127.5°	367.3	435.5	691.4	1161.2	1336.1
130°	382.4	454.7	689.1	1113.4	1281.3
132.5°	396.4	473.4	687.9	1063.9	1224.2
135°	410.4	489.7	686.7	1015.6	1162.4
137.5°	423.2	503.6	686.7	966.6	1103.0
140°	438.4	516.5	685.6	923.4	1041.2
142.5°	453.5	527.0	685.6	882.0	979.4
145°	468.7	538.6	683.2	848.2	928.1
147.5°	485.0	548.0	679.7	818.4	882.6
150°	501.3	557.3	676.2	792.8	843.0
152.5°	517.7	566.6	670.4	771.2	809.1
155°	532.8	575.4	663.4	750.3	780.0
157.5°	545.6	582.4	656.4	730.4	754.3
160°	558.5	589.4	649.4	710.6	729.9
162.5°	571.3	594.6	643.6	692.0	706.5
165°	580.6	598.1	635.4	673.9	684.4
167.5°	588.8	601.6	628.4	657.6	663.4
170°	596.9	603.4	622.6	642.4	644.7
172.5°	601.6	605.1	615.6	629.0	629.6
175°	605.1	605.7	610.9	618.5	616.8
177.5°	607.4	606.3	606.3	610.9	607.4
180°	606.3	606.3	606.3	606.3	606.3

(END OF REPORT)