

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: P1009224

Luminaire Tested: S122DIP-B675D1080UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009224
REPORT IS A COMBINATION OF REPORTS P984447 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D1080UB30-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

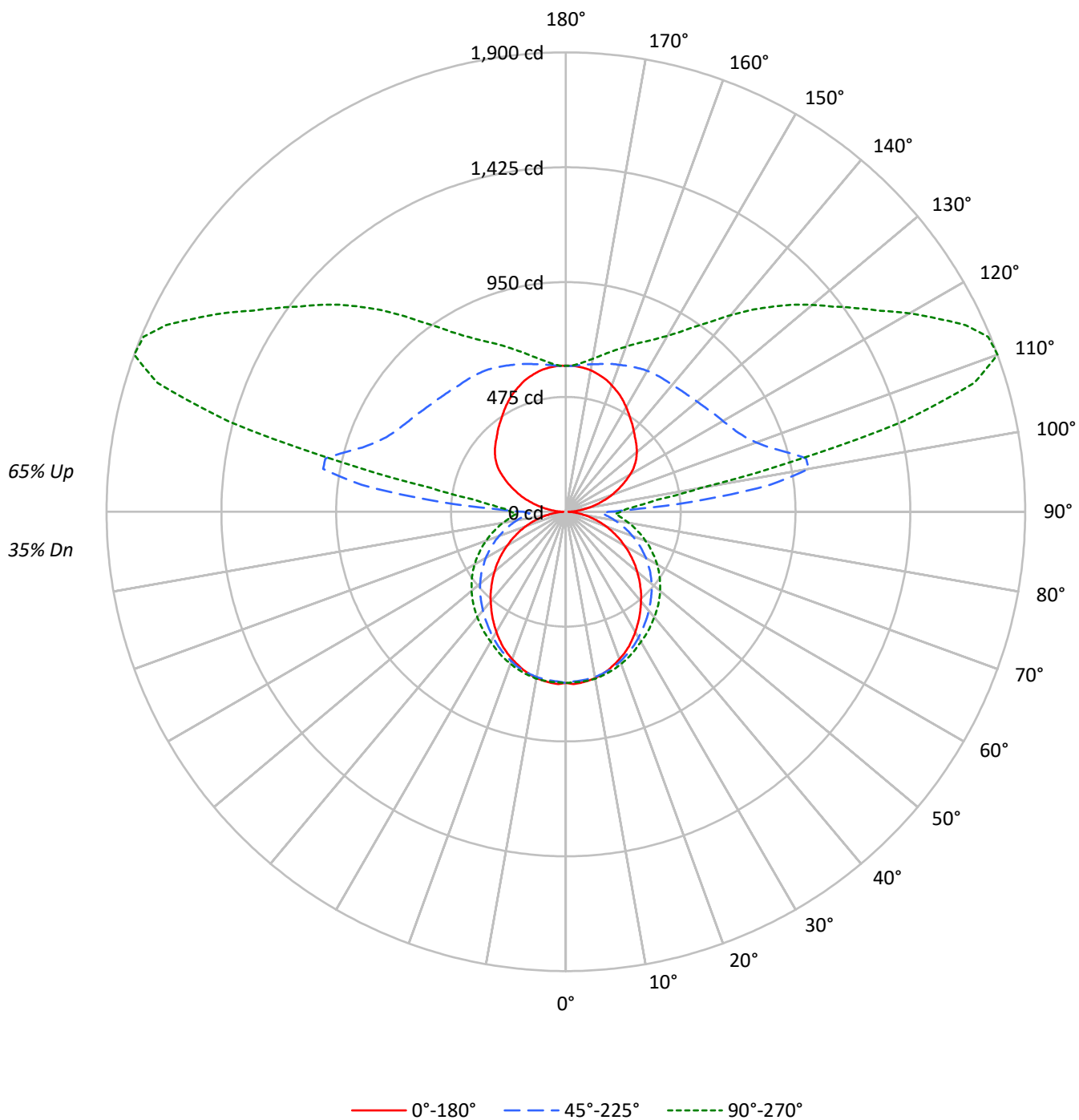
Lumens per Lamp: N/A
Luminaire Lumens: 6914.8 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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
RCR																	
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42
1	93	89	84	81	84	80	76	73	64	61	59	49	47	46	36	34	33
2	85	77	70	65	76	69	64	59	55	51	48	43	40	37	31	29	27
3	77	67	60	54	69	61	54	49	48	44	40	37	34	31	27	25	23
4	70	59	51	45	63	53	46	41	43	38	34	33	29	26	24	21	19
5	64	52	44	38	57	47	40	35	38	33	29	29	26	23	21	19	17
6	59	47	39	33	53	42	35	30	34	29	25	26	23	20	19	17	15
7	54	42	34	28	49	38	31	26	31	26	22	24	20	17	17	15	13
8	50	38	30	25	45	35	28	23	28	23	19	22	18	15	16	13	11
9	47	35	27	22	42	31	25	20	26	20	17	20	16	14	15	12	10
10	44	32	24	20	39	29	22	18	23	19	15	18	15	12	14	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11209	11209	11209
5°	11260	10732	10671
10°	11184	10360	10209
15°	11026	9975	9734
20°	10827	9570	9284
25°	10631	9185	8876
30°	10355	8791	8472
35°	10077	8412	8175
40°	9784	8086	7880
45°	9503	7789	7624
50°	9204	7516	7369
55°	8886	7225	7111
60°	8503	6921	6840
65°	8098	6573	6527
70°	7644	6199	6192
75°	7060	5826	5874
80°	6148	5436	5546
85°	5212	5071	5260

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 9503 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	1.0
10°-20°	192.5	2.8
20°-30°	291.7	4.2
30°-40°	355.2	5.1
40°-50°	382.2	5.5
50°-60°	371.2	5.4
60°-70°	324.2	4.7
70°-80°	249.5	3.6
80°-90°	171.0	2.5
90°-100°	360.0	5.2
100°-110°	911.5	13.2
110°-120°	925.2	13.4
120°-130°	746.1	10.8
130°-140°	587.7	8.5
140°-150°	436.3	6.3
150°-160°	305.2	4.4
160°-170°	179.7	2.6
170°-180°	58.5	0.8
0°-30°	551.4	8.0
0°-40°	906.6	13.1
0°-60°	1660.0	24.0
0°-90°	2404.7	34.8
90°-120°	2196.8	31.8
90°-150°	3966.8	57.4
90°-180°	4510.0	65.2
0°-180°	6914.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	708	708	708	708	708	
5°	710	707	701	707	706	67
15°	677	679	679	689	688	191
25°	616	623	632	644	648	283
35°	531	548	568	590	597	332
45°	435	463	499	531	541	336
55°	334	370	424	461	474	298
65°	228	278	339	381	394	226
75°	126	184	249	294	307	134
85°	37	101	166	209	224	39
90°	12	85	175	214	227	10
95°	49	156	573	329	302	48
105°	147	249	949	1662	1444	156
115°	254	331	781	1578	1825	251
125°	350	414	727	1266	1468	312
135°	410	489	695	1044	1199	317
145°	467	536	680	851	935	293
155°	531	573	661	747	777	244
165°	578	596	633	671	682	163
175°	602	603	608	616	614	57
180°	604	604	604	604	604	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	708.1	708.1	708.1	708.1	708.1
2.5°	713.3	710.2	703.0	708.1	706.1
5°	710.2	707.1	701.0	707.1	706.1
7.5°	705.1	703.0	697.9	705.1	704.0
10°	698.9	696.8	693.8	702.0	701.0
12.5°	688.6	689.7	687.6	695.8	694.8
15°	677.3	679.4	679.4	688.6	687.6
17.5°	663.0	667.1	670.2	679.4	679.4
20°	648.6	653.7	657.8	669.1	669.1
22.5°	633.2	639.4	645.5	656.8	658.9
25°	615.8	623.0	632.2	644.5	647.6
27.5°	595.2	606.5	616.8	632.2	634.2
30°	574.7	588.1	601.4	617.8	620.9
32.5°	552.1	567.5	584.0	603.5	609.6
35°	530.6	548.0	567.5	590.1	597.3
37.5°	507.0	526.5	551.1	575.7	582.9
40°	483.4	506.0	533.7	560.4	569.6
42.5°	460.8	483.4	516.2	546.0	555.2
45°	435.1	462.9	498.8	530.6	540.9
47.5°	410.5	440.3	481.3	514.2	525.5
50°	384.9	416.7	462.9	497.7	509.0
52.5°	360.2	394.1	443.4	479.3	491.6
55°	333.5	370.5	423.9	460.8	474.1
57.5°	307.9	348.9	402.3	442.3	455.7
60°	280.2	324.3	382.8	421.8	436.2
62.5°	255.5	301.7	360.2	402.3	415.6
65°	227.8	278.1	338.7	380.8	394.1
67.5°	203.2	255.5	317.1	359.2	373.6
70°	176.5	229.9	293.5	337.6	350.0
72.5°	151.9	207.3	272.0	315.1	330.5
75°	126.2	183.7	249.4	293.5	306.9
77.5°	101.6	161.1	227.8	272.0	286.3
80°	77.0	139.6	206.3	249.4	263.8
82.5°	56.4	118.0	185.8	228.9	242.2
85°	36.9	100.6	166.3	209.4	223.7
87.5°	22.6	84.2	149.8	191.9	205.3
90°	11.5	85.4	175.0	214.2	227.1
92.5°	26.6	118.8	305.0	248.8	249.4
95°	48.8	156.2	573.1	328.8	301.6
97.5°	67.6	183.0	852.6	493.6	382.8
100°	96.6	206.6	1019.7	827.3	567.5
102.5°	122.3	228.0	1018.4	1293.4	954.0
105°	146.7	248.6	948.6	1661.8	1443.9
107.5°	174.6	269.0	883.3	1790.1	1771.2
110°	201.5	289.8	837.6	1759.8	1899.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	227.0	310.8	804.9	1677.7	1890.5
115°	253.7	330.6	781.4	1577.8	1825.4
117.5°	280.6	351.4	764.9	1483.0	1731.2
120°	306.1	371.8	750.6	1396.4	1641.6
122.5°	330.5	393.6	739.8	1328.2	1546.4
125°	350.4	414.2	726.8	1265.9	1468.4
127.5°	367.8	434.6	717.1	1210.7	1394.0
130°	382.9	453.8	708.7	1155.9	1331.3
132.5°	396.8	472.4	701.4	1099.4	1267.2
135°	409.7	488.6	695.1	1044.0	1198.6
137.5°	422.4	502.5	690.0	988.1	1131.1
140°	437.5	514.3	684.7	938.0	1061.3
142.5°	452.6	524.8	682.6	890.6	992.6
145°	466.7	536.4	680.3	850.8	935.4
147.5°	483.0	545.6	676.8	816.0	882.9
150°	499.2	555.0	673.3	789.4	839.4
152.5°	515.5	564.2	667.5	768.0	805.7
155°	530.6	572.9	660.6	747.1	776.7
157.5°	543.3	579.8	653.6	727.4	751.1
160°	556.1	586.8	646.6	707.6	726.8
162.5°	568.9	592.0	640.8	689.0	703.5
165°	578.2	595.6	632.7	671.0	681.5
167.5°	586.3	599.0	625.7	654.8	660.6
170°	594.4	600.8	619.9	639.6	642.0
172.5°	599.0	602.6	613.0	626.3	626.9
175°	602.5	603.1	608.3	615.9	614.1
177.5°	604.9	603.7	603.7	608.3	604.9
180°	603.7	603.7	603.7	603.7	603.7

(END OF REPORT)