

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: P1009233

Luminaire Tested: S122DIP-B675D1080UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009233
REPORT IS A COMBINATION OF REPORTS P984456 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D1080UB35-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

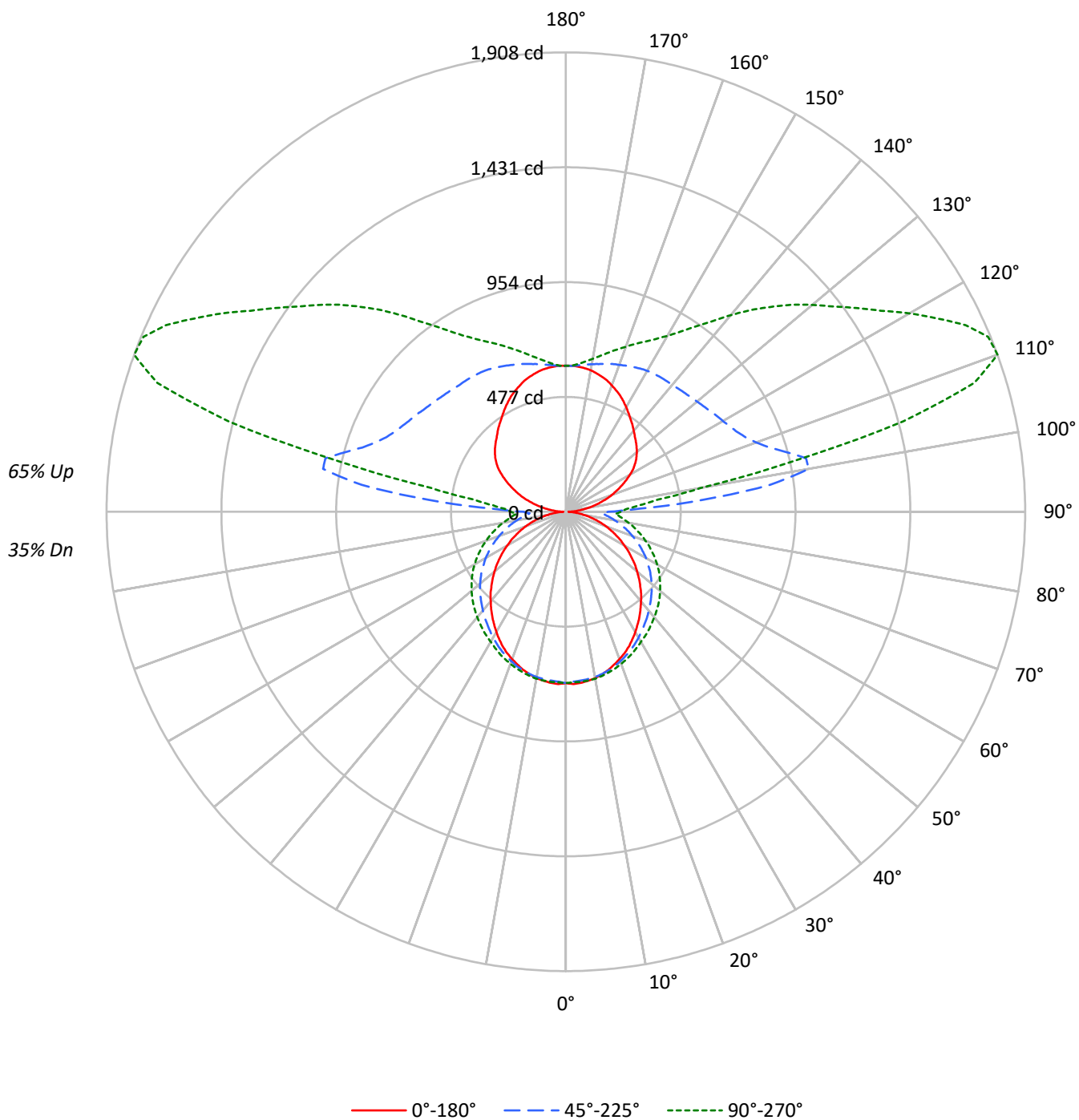
Lumens per Lamp: N/A
Luminaire Lumens: 6944.8 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	11259	11259	11259
5°	11309	10779	10717
10°	11234	10404	10254
15°	11076	10019	9778
20°	10876	9614	9325
25°	10678	9225	8916
30°	10402	8831	8510
35°	10121	8451	8212
40°	9826	8121	7915
45°	9546	7823	7658
50°	9245	7548	7402
55°	8926	7255	7142
60°	8539	6952	6870
65°	8134	6603	6555
70°	7678	6226	6218
75°	7093	5851	5899
80°	6171	5460	5569
85°	5241	5092	5284

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9546 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	1.0
10°-20°	193.4	2.8
20°-30°	293.0	4.2
30°-40°	356.8	5.1
40°-50°	383.9	5.5
50°-60°	372.8	5.4
60°-70°	325.6	4.7
70°-80°	250.6	3.6
80°-90°	171.7	2.5
90°-100°	361.6	5.2
100°-110°	915.5	13.2
110°-120°	929.2	13.4
120°-130°	749.3	10.8
130°-140°	590.2	8.5
140°-150°	438.2	6.3
150°-160°	306.5	4.4
160°-170°	180.5	2.6
170°-180°	58.7	0.8
0°-30°	553.8	8.0
0°-40°	910.7	13.1
0°-60°	1667.4	24.0
0°-90°	2415.3	34.8
90°-120°	2206.2	31.8
90°-150°	3983.9	57.4
90°-180°	4530.0	65.2
0°-180°	6944.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	711	711	711	711	711	
5°	713	710	704	710	709	68
15°	680	682	682	692	691	192
25°	618	626	635	647	650	284
35°	533	550	570	593	600	333
45°	437	465	501	533	543	337
55°	335	372	426	463	476	300
65°	229	279	340	382	396	227
75°	127	184	250	295	308	134
85°	37	101	167	210	225	39
90°	12	86	176	215	228	10
95°	49	157	576	330	303	49
105°	147	250	953	1669	1450	157
115°	255	332	785	1585	1833	252
125°	352	416	730	1271	1475	313
135°	411	491	698	1049	1204	318
145°	469	539	683	854	939	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°	711.3	711.3	711.3	711.3	711.3
2.5°	716.4	713.3	706.1	711.3	709.2
5°	713.3	710.3	704.1	710.3	709.2
7.5°	708.2	706.1	701.0	708.2	707.2
10°	702.0	699.9	696.8	705.1	704.1
12.5°	691.7	692.7	690.7	698.9	697.9
15°	680.4	682.4	682.4	691.7	690.7
17.5°	665.9	670.0	673.1	682.4	682.4
20°	651.5	656.6	660.8	672.1	672.1
22.5°	636.0	642.2	648.4	659.7	661.8
25°	618.5	625.7	635.0	647.4	650.5
27.5°	597.9	609.2	619.5	635.0	637.1
30°	577.3	590.7	604.1	620.6	623.7
32.5°	554.6	570.1	586.5	606.1	612.3
35°	532.9	550.5	570.1	592.7	600.0
37.5°	509.2	528.8	553.6	578.3	585.5
40°	485.5	508.2	536.0	562.8	572.1
42.5°	462.8	485.5	518.5	548.4	557.7
45°	437.1	464.9	501.0	532.9	543.3
47.5°	412.3	442.2	483.5	516.5	527.8
50°	386.6	418.5	464.9	500.0	511.3
52.5°	361.8	395.8	445.3	481.4	493.8
55°	335.0	372.1	425.7	462.8	476.2
57.5°	309.3	350.5	404.1	444.3	457.7
60°	281.4	325.7	384.5	423.7	438.1
62.5°	256.7	303.1	361.8	404.1	417.5
65°	228.8	279.4	340.2	382.4	395.8
67.5°	204.1	256.7	318.5	360.8	375.2
70°	177.3	230.9	294.8	339.1	351.5
72.5°	152.6	208.2	273.2	316.5	331.9
75°	126.8	184.5	250.5	294.8	308.2
77.5°	102.1	161.8	228.8	273.2	287.6
80°	77.3	140.2	207.2	250.5	264.9
82.5°	56.7	118.5	186.6	229.9	243.3
85°	37.1	101.0	167.0	210.3	224.7
87.5°	22.7	84.5	150.5	192.8	206.2
90°	11.5	85.8	175.7	215.2	228.2
92.5°	26.8	119.3	306.4	249.8	250.5
95°	49.0	157.0	575.5	330.2	303.0
97.5°	67.8	183.8	856.3	495.8	384.5
100°	97.0	207.4	1024.2	830.9	570.0
102.5°	122.8	229.1	1022.8	1298.9	958.1
105°	147.4	249.6	952.6	1669.0	1450.1
107.5°	175.4	270.1	887.0	1797.8	1778.7
110°	202.3	291.1	841.3	1767.3	1908.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	228.0	312.1	808.4	1684.8	1898.6
115°	254.8	332.0	784.8	1584.6	1833.1
117.5°	281.8	352.9	768.1	1489.4	1738.7
120°	307.4	373.3	753.8	1402.4	1648.7
122.5°	331.9	395.3	743.0	1333.9	1553.1
125°	351.9	416.0	729.9	1271.4	1474.8
127.5°	369.4	436.5	720.3	1215.8	1400.0
130°	384.5	455.7	711.8	1160.9	1337.0
132.5°	398.5	474.4	704.4	1104.1	1272.6
135°	411.4	490.7	698.0	1048.6	1203.6
137.5°	424.2	504.6	692.9	992.4	1136.0
140°	439.4	516.5	687.7	942.0	1065.9
142.5°	454.5	527.0	685.6	894.4	996.9
145°	468.7	538.6	683.2	854.4	939.4
147.5°	485.0	548.0	679.7	819.4	886.7
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)