

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: P1009248

Luminaire Tested: S122DIP-B675D1080UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009248
REPORT IS A COMBINATION OF REPORTS P984474 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D1080UB50-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

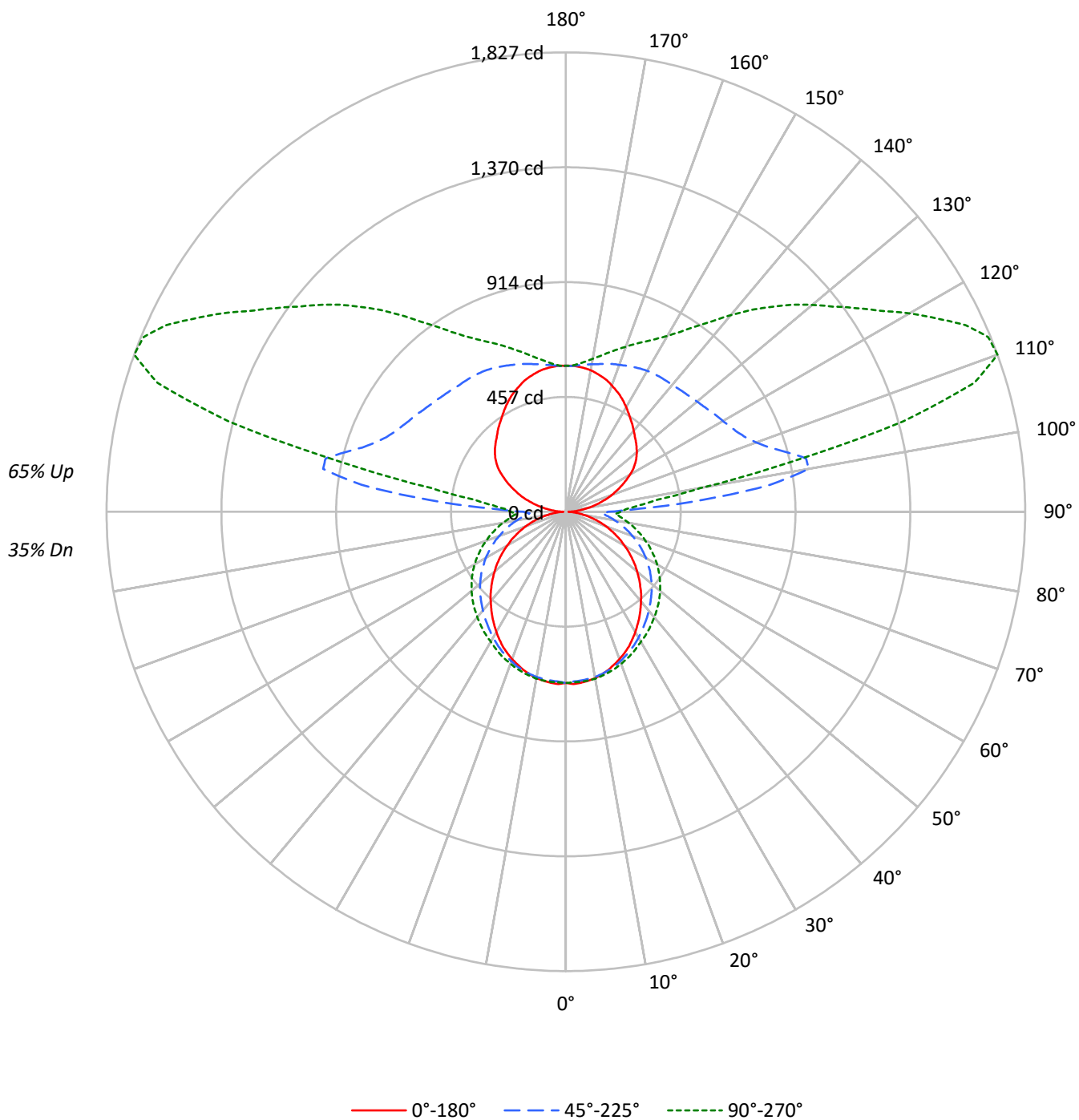
Lumens per Lamp: N/A
Luminaire Lumens: 6648.7 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	10778	10778	10778
5°	10827	10318	10260
10°	10754	9961	9815
15°	10602	9592	9359
20°	10410	9202	8927
25°	10222	8832	8535
30°	9957	8454	8146
35°	9689	8089	7860
40°	9407	7774	7577
45°	9138	7489	7329
50°	8848	7225	7085
55°	8545	6945	6838
60°	8175	6655	6577
65°	7789	6319	6275
70°	7349	5960	5953
75°	6791	5601	5646
80°	5908	5226	5331
85°	5015	4876	5058

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9138 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	1.0
10°-20°	185.1	2.8
20°-30°	280.5	4.2
30°-40°	341.6	5.1
40°-50°	367.5	5.5
50°-60°	356.9	5.4
60°-70°	311.7	4.7
70°-80°	239.9	3.6
80°-90°	164.4	2.5
90°-100°	346.2	5.2
100°-110°	876.5	13.2
110°-120°	889.6	13.4
120°-130°	717.4	10.8
130°-140°	565.1	8.5
140°-150°	419.5	6.3
150°-160°	293.4	4.4
160°-170°	172.8	2.6
170°-180°	56.2	0.8
0°-30°	530.2	8.0
0°-40°	871.7	13.1
0°-60°	1596.1	24.0
0°-90°	2312.1	34.8
90°-120°	2112.2	31.8
90°-150°	3814.2	57.4
90°-180°	4337.0	65.2
0°-180°	6648.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	681	681	681	681	681	
5°	683	680	674	680	679	65
15°	651	653	653	662	661	183
25°	592	599	608	620	623	272
35°	510	527	546	567	574	319
45°	418	445	480	510	520	323
55°	321	356	408	443	456	287
65°	219	267	326	366	379	218
75°	121	177	240	282	295	128
85°	36	97	160	201	215	37
90°	11	82	168	206	218	9
95°	47	150	551	316	290	47
105°	141	239	912	1598	1388	150
115°	244	318	751	1517	1755	242
125°	337	398	699	1217	1412	300
135°	394	470	668	1004	1152	305
145°	449	516	654	818	899	282
155°	510	551	635	718	747	235
165°	556	573	608	645	655	157
175°	579	580	585	592	590	55
180°	580	580	580	580	580	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	680.9	680.9	680.9	680.9	680.9
2.5°	685.8	682.9	675.9	680.9	678.9
5°	682.9	679.9	674.0	679.9	678.9
7.5°	677.9	675.9	671.0	677.9	676.9
10°	672.0	670.0	667.1	675.0	674.0
12.5°	662.1	663.1	661.1	669.0	668.1
15°	651.3	653.3	653.3	662.1	661.1
17.5°	637.5	641.4	644.4	653.3	653.3
20°	623.6	628.6	632.5	643.4	643.4
22.5°	608.8	614.8	620.7	631.5	633.5
25°	592.1	599.0	607.9	619.7	622.7
27.5°	572.3	583.2	593.1	607.9	609.8
30°	552.6	565.4	578.3	594.0	597.0
32.5°	530.9	545.7	561.5	580.2	586.1
35°	510.2	526.9	545.7	567.4	574.3
37.5°	487.5	506.2	529.9	553.6	560.5
40°	464.8	486.5	513.1	538.8	547.7
42.5°	443.1	464.8	496.4	525.0	533.8
45°	418.4	445.0	479.6	510.2	520.0
47.5°	394.7	423.3	462.8	494.4	505.2
50°	370.0	400.6	445.0	478.6	489.4
52.5°	346.4	378.9	426.3	460.8	472.7
55°	320.7	356.2	407.5	443.1	455.9
57.5°	296.0	335.5	386.8	425.3	438.1
60°	269.4	311.8	368.1	405.6	419.4
62.5°	245.7	290.1	346.4	386.8	399.6
65°	219.1	267.4	325.6	366.1	378.9
67.5°	195.4	245.7	304.9	345.4	359.2
70°	169.7	221.0	282.2	324.7	336.5
72.5°	146.0	199.3	261.5	302.9	317.7
75°	121.4	176.6	239.8	282.2	295.0
77.5°	97.7	154.9	219.1	261.5	275.3
80°	74.0	134.2	198.3	239.8	253.6
82.5°	54.3	113.5	178.6	220.1	232.9
85°	35.5	96.7	159.9	201.3	215.1
87.5°	21.7	80.9	144.1	184.5	197.4
90°	11.0	82.1	168.3	206.0	218.4
92.5°	25.6	114.2	293.3	239.2	239.8
95°	47.0	150.3	551.1	316.2	290.1
97.5°	64.9	176.0	819.9	474.6	368.1
100°	92.9	198.6	980.5	795.4	545.6
102.5°	117.5	219.4	979.2	1243.6	917.2
105°	141.1	239.0	912.0	1597.9	1388.3
107.5°	167.9	258.6	849.3	1721.2	1703.0
110°	193.7	278.8	805.4	1692.0	1826.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	218.2	298.8	773.9	1613.1	1817.7
115°	243.9	317.8	751.3	1517.0	1755.1
117.5°	269.8	337.9	735.4	1425.9	1664.6
120°	294.3	357.4	721.7	1342.6	1578.4
122.5°	317.8	378.4	711.4	1277.2	1486.9
125°	336.9	398.2	698.9	1217.2	1411.9
127.5°	353.6	417.9	689.5	1164.1	1340.4
130°	368.1	436.4	681.4	1111.5	1280.1
132.5°	381.5	454.2	674.4	1057.0	1218.5
135°	393.9	469.8	668.4	1003.8	1152.4
137.5°	406.2	483.2	663.4	950.1	1087.6
140°	420.7	494.5	658.4	901.8	1020.5
142.5°	435.2	504.6	656.4	856.2	954.5
145°	448.7	515.7	654.1	818.0	899.4
147.5°	464.4	524.6	650.8	784.6	848.9
150°	480.0	533.6	647.4	759.0	807.0
152.5°	495.6	542.5	641.8	738.4	774.7
155°	510.1	550.8	635.1	718.3	746.8
157.5°	522.4	557.6	628.4	699.3	722.2
160°	534.7	564.2	621.8	680.3	698.8
162.5°	547.0	569.3	616.2	662.5	676.4
165°	555.9	572.6	608.4	645.2	655.2
167.5°	563.7	576.0	601.7	629.6	635.1
170°	571.5	577.6	596.1	615.0	617.3
172.5°	576.0	579.4	589.4	602.2	602.8
175°	579.3	579.9	584.9	592.2	590.5
177.5°	581.6	580.5	580.5	584.9	581.6
180°	580.5	580.5	580.5	580.5	580.5

(END OF REPORT)