

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: P1009018

Luminaire Tested: S122DIP-B485D1080UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009018
REPORT IS A COMBINATION OF REPORTS P984165 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D1080UB40-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

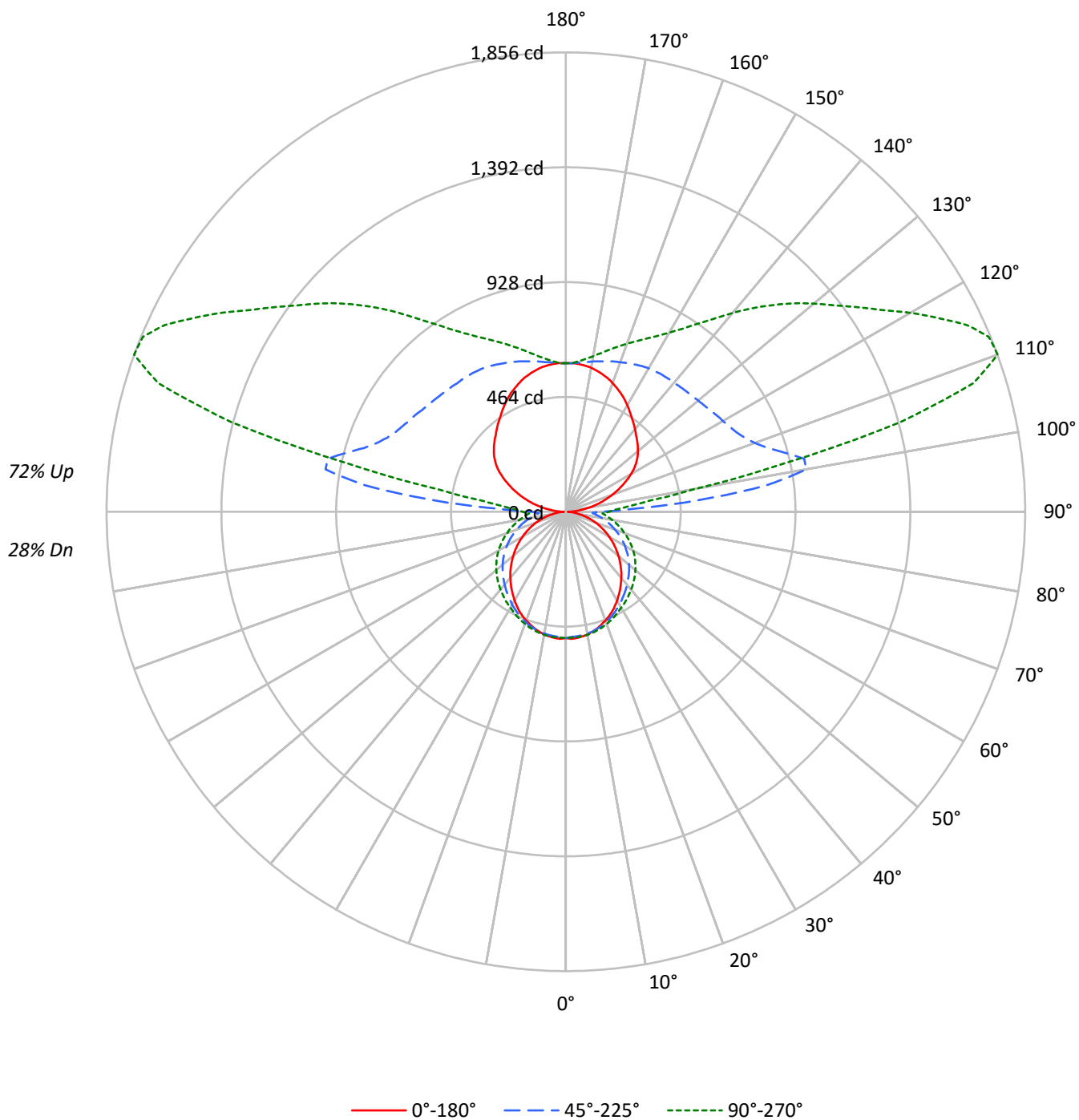
Lumens per Lamp: N/A
Luminaire Lumens: 6135.8 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8078	8078	8078
5°	8113	7733	7689
10°	8059	7464	7356
15°	7946	7188	7014
20°	7802	6896	6690
25°	7660	6618	6395
30°	7461	6336	6104
35°	7260	6063	5891
40°	7049	5826	5678
45°	6849	5612	5493
50°	6631	5415	5310
55°	6403	5205	5125
60°	6127	4986	4929
65°	5837	4736	4704
70°	5509	4467	4462
75°	5091	4198	4232
80°	4431	3916	3996
85°	3757	3653	3791

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6849 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	0.8
10°-20°	138.7	2.3
20°-30°	210.2	3.4
30°-40°	256.0	4.2
40°-50°	275.4	4.5
50°-60°	267.5	4.4
60°-70°	233.6	3.8
70°-80°	179.8	2.9
80°-90°	124.2	2.0
90°-100°	326.4	5.3
100°-110°	883.3	14.4
110°-120°	904.7	14.7
120°-130°	733.4	12.0
130°-140°	580.7	9.5
140°-150°	433.2	7.1
150°-160°	303.4	4.9
160°-170°	178.7	2.9
170°-180°	58.1	0.9
0°-30°	397.3	6.5
0°-40°	653.3	10.6
0°-60°	1196.2	19.5
0°-90°	1733.8	28.3
90°-120°	2114.4	34.5
90°-150°	3861.8	62.9
90°-180°	4402.0	71.7
0°-180°	6135.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	510	510	510	510	510	
5°	512	510	505	510	509	49
15°	488	490	490	496	496	137
25°	444	449	456	464	467	204
35°	382	395	409	425	430	239
45°	314	334	359	382	390	242
55°	240	267	305	332	342	215
65°	164	200	244	274	284	163
75°	91	132	180	212	221	96
85°	27	72	120	151	161	28
90°	9	66	137	165	174	8
95°	46	140	538	284	254	46
105°	144	238	919	1618	1398	154
115°	251	324	760	1544	1787	249
125°	348	411	713	1242	1440	309
135°	407	486	688	1029	1180	315
145°	464	533	676	844	927	291
155°	528	570	657	743	772	243
165°	575	592	629	667	678	162
175°	599	600	605	612	611	57
180°	600	600	600	600	600	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	510.3	510.3	510.3	510.3	510.3
2.5°	514.0	511.7	506.6	510.3	508.8
5°	511.7	509.5	505.1	509.5	508.8
7.5°	508.0	506.6	502.9	508.0	507.3
10°	503.6	502.1	499.9	505.8	505.1
12.5°	496.2	497.0	495.5	501.4	500.7
15°	488.1	489.6	489.6	496.2	495.5
17.5°	477.7	480.7	482.9	489.6	489.6
20°	467.4	471.1	474.0	482.2	482.2
22.5°	456.3	460.7	465.2	473.3	474.8
25°	443.7	448.9	455.5	464.4	466.6
27.5°	428.9	437.1	444.4	455.5	457.0
30°	414.1	423.7	433.4	445.2	447.4
32.5°	397.9	409.0	420.8	434.8	439.3
35°	382.3	394.9	409.0	425.2	430.4
37.5°	365.3	379.4	397.1	414.9	420.0
40°	348.3	364.6	384.5	403.8	410.4
42.5°	332.0	348.3	372.0	393.4	400.1
45°	313.6	333.5	359.4	382.3	389.7
47.5°	295.8	317.3	346.8	370.5	378.6
50°	277.3	300.2	333.5	358.7	366.8
52.5°	259.6	284.0	319.5	345.4	354.2
55°	240.3	267.0	305.4	332.0	341.7
57.5°	221.9	251.4	289.9	318.7	328.3
60°	201.9	233.7	275.8	303.9	314.3
62.5°	184.1	217.4	259.6	289.9	299.5
65°	164.2	200.4	244.0	274.4	284.0
67.5°	146.4	184.1	228.5	258.8	269.2
70°	127.2	165.7	211.5	243.3	252.2
72.5°	109.4	149.4	196.0	227.0	238.1
75°	91.0	132.4	179.7	211.5	221.1
77.5°	73.2	116.1	164.2	196.0	206.3
80°	55.5	100.6	148.6	179.7	190.1
82.5°	40.7	85.0	133.9	164.9	174.5
85°	26.6	72.5	119.8	150.9	161.2
87.5°	16.3	60.6	108.0	138.3	147.9
90°	8.6	65.9	136.8	164.7	174.2
92.5°	24.0	100.8	268.8	201.8	199.1
95°	46.3	140.0	537.5	283.9	253.6
97.5°	65.2	168.0	817.5	450.0	336.6
100°	94.1	193.0	985.9	784.0	522.6
102.5°	119.8	215.8	986.5	1249.8	909.2
105°	144.5	237.5	919.0	1618.4	1398.5
107.5°	172.2	259.2	856.0	1748.1	1726.2
110°	199.2	281.4	812.4	1720.2	1856.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	224.6	303.4	781.8	1640.6	1849.0
115°	251.2	324.5	760.1	1543.6	1786.6
117.5°	278.1	346.4	745.6	1451.2	1695.2
120°	303.5	367.7	733.2	1367.4	1608.1
122.5°	327.7	390.2	724.0	1301.6	1516.0
125°	347.8	411.2	713.1	1241.6	1440.5
127.5°	365.1	431.8	705.2	1188.9	1368.8
130°	380.1	450.8	698.5	1136.4	1308.5
132.5°	394.0	469.4	692.9	1082.1	1246.8
135°	407.0	485.6	688.0	1029.1	1180.5
137.5°	419.7	499.4	684.3	975.4	1115.7
140°	434.7	511.4	680.2	927.5	1048.5
142.5°	449.7	521.8	678.7	882.1	982.2
145°	464.0	533.3	676.4	844.2	926.9
147.5°	480.2	542.6	673.0	811.0	876.8
150°	496.4	551.8	669.5	785.0	834.6
152.5°	512.5	561.0	663.7	763.6	801.1
155°	527.5	569.6	656.8	742.8	772.2
157.5°	540.2	576.6	649.9	723.2	746.8
160°	552.9	583.6	643.0	703.6	722.6
162.5°	565.6	588.7	637.2	685.1	699.5
165°	574.9	592.2	629.1	667.2	677.6
167.5°	582.9	595.6	622.2	651.0	656.8
170°	591.0	597.4	616.4	636.0	638.3
172.5°	595.6	599.0	609.5	622.8	623.3
175°	599.1	599.7	604.9	612.3	610.6
177.5°	601.4	600.2	600.2	604.9	601.4
180°	600.2	600.2	600.2	600.2	600.2

(END OF REPORT)