

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: P1009152

Luminaire Tested: S122DIP-B485D725UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009152
REPORT IS A COMBINATION OF REPORTS P984345 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D725UB40-4F0-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

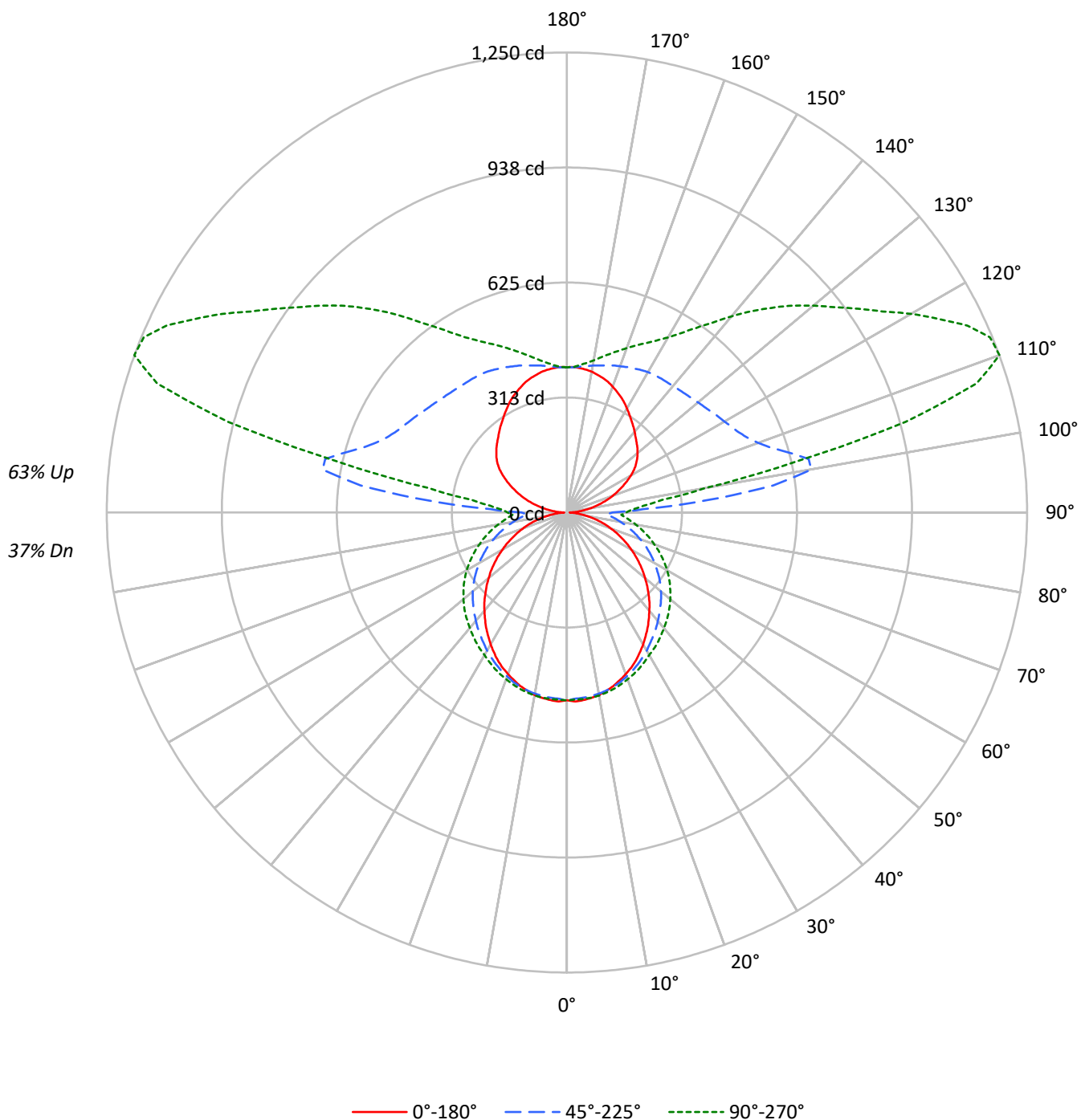
Lumens per Lamp: N/A
Luminaire Lumens: 4702.1 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 45.1
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	76	76	76	59	59	59	44	44	44
1	94	89	85	81	85	81	77	74	65	62	60	50	49	47	37	36	35
2	85	77	71	65	76	70	64	60	56	52	49	44	41	38	32	30	29
3	77	67	60	54	69	61	54	49	49	44	40	38	35	32	28	26	24
4	70	59	51	45	63	54	47	41	43	38	34	34	30	27	25	22	20
5	64	53	44	38	58	48	41	35	39	33	29	30	26	23	22	20	17
6	59	47	39	33	53	43	35	30	35	29	25	27	23	20	20	17	15
7	55	42	34	29	49	38	31	26	31	26	22	25	21	18	18	15	13
8	51	38	30	25	46	35	28	23	28	23	19	22	18	16	17	14	12
9	47	35	27	22	42	32	25	20	26	21	17	20	17	14	15	13	11
10	44	32	25	20	40	29	23	18	24	19	15	19	15	12	14	12	10

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	1.0
10°-20°	138.7	3.0
20°-30°	210.2	4.5
30°-40°	256.0	5.4
40°-50°	275.4	5.9
50°-60°	267.5	5.7
60°-70°	233.6	5.0
70°-80°	179.8	3.8
80°-90°	122.9	2.6
90°-100°	243.1	5.2
100°-110°	601.7	12.8
110°-120°	608.8	12.9
120°-130°	490.0	10.4
130°-140°	385.2	8.2
140°-150°	285.5	6.1
150°-160°	199.6	4.2
160°-170°	117.5	2.5
170°-180°	38.2	0.8
0°-30°	397.3	8.4
0°-40°	653.3	13.9
0°-60°	1196.2	25.4
0°-90°	1732.5	36.8
90°-120°	1453.7	30.9
90°-150°	2614.3	55.6
90°-180°	2970.0	63.2
0°-180°	4702.1	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°	8	61	123	152	161	7
95°	32	106	383	225	209	32
105°	96	165	626	1095	953	103
115°	166	217	515	1038	1201	165
125°	229	271	478	832	965	204
135°	268	320	455	685	787	207
145°	305	351	445	557	612	192
155°	347	375	432	489	508	160
165°	378	390	414	439	446	107
175°	394	394	398	403	402	37
180°	395	395	395	395	395	

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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°	8.2	60.6	123.4	151.9	161.2
92.5°	18.1	81.9	207.9	173.7	175.0
95°	32.5	106.0	382.6	225.4	208.6
97.5°	44.7	123.2	565.1	332.7	261.1
100°	63.7	138.0	673.8	550.4	381.2
102.5°	80.3	151.8	672.4	854.6	633.5
105°	96.3	164.8	626.2	1095.2	953.3
107.5°	114.6	177.8	583.0	1178.4	1166.8
110°	132.1	191.2	552.8	1158.0	1250.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	148.8	204.6	530.9	1104.0	1243.8
115°	166.2	217.2	515.1	1038.1	1200.7
117.5°	183.7	230.6	503.9	975.5	1138.6
120°	200.4	243.6	494.1	918.4	1079.5
122.5°	216.3	257.7	486.6	873.4	1016.6
125°	229.3	271.0	477.6	832.0	965.2
127.5°	240.7	284.3	470.9	795.4	916.0
130°	250.5	296.8	465.0	759.0	874.3
132.5°	259.6	309.0	459.8	721.6	832.0
135°	268.0	319.6	455.3	685.0	786.6
137.5°	276.3	328.7	451.6	647.9	741.9
140°	286.2	336.4	447.9	614.6	695.7
142.5°	296.0	343.2	446.4	583.3	650.4
145°	305.2	350.8	444.9	556.7	612.5
147.5°	315.8	356.8	442.6	533.7	577.8
150°	326.5	363.0	440.4	516.3	548.9
152.5°	337.1	369.0	436.6	502.2	526.9
155°	347.0	374.7	432.0	488.6	507.9
157.5°	355.3	379.2	427.5	475.7	491.2
160°	363.7	383.8	422.9	462.8	475.3
162.5°	372.0	387.2	419.1	450.6	460.1
165°	378.1	389.5	413.8	438.8	445.7
167.5°	383.4	391.8	409.2	428.2	432.0
170°	388.7	393.0	405.4	418.4	419.9
172.5°	391.8	394.0	400.9	409.6	410.0
175°	394.1	394.5	397.8	402.8	401.6
177.5°	395.6	394.8	394.8	397.8	395.6
180°	394.8	394.8	394.8	394.8	394.8

(END OF REPORT)