

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: P1011690

Luminaire Tested: S123DIP-B560D1025UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011690
REPORT IS A COMBINATION OF REPORTS P989948 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D1025UB30-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

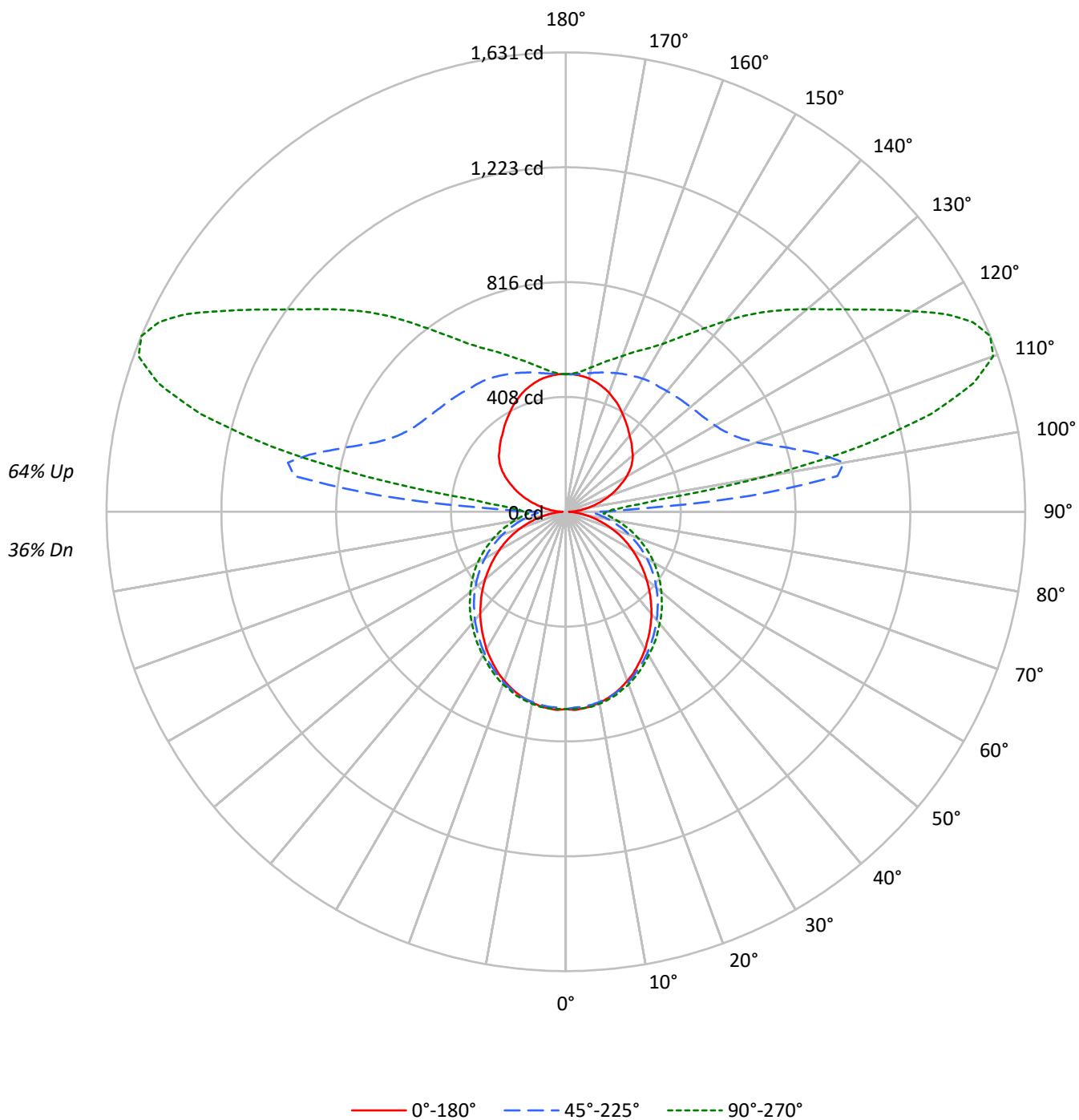
Lumens per Lamp: N/A
Luminaire Lumens: 6037.6 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
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	59	59	59	43	43	43
1	94	89	85	81	85	81	77	74	65	62	60	50	49	47	37	36	35
2	85	77	71	66	77	70	65	60	56	53	49	44	41	39	32	30	29
3	77	68	60	54	70	61	55	50	49	45	41	38	35	32	28	26	24
4	71	60	52	46	64	54	47	42	44	39	35	34	30	28	25	23	21
5	65	53	45	39	58	48	41	36	39	34	30	30	27	24	22	20	18
6	59	47	39	34	53	43	36	31	35	30	26	27	24	21	20	18	16
7	55	43	35	29	49	39	32	27	32	26	22	25	21	18	18	16	14
8	51	39	31	26	46	35	28	24	29	24	20	23	19	16	17	14	12
9	47	35	28	23	43	32	25	21	26	21	18	21	17	14	16	13	11
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7539	7539	7539
5°	7560	7318	7312
10°	7489	7120	7065
15°	7390	6901	6804
20°	7249	6657	6523
25°	7077	6382	6232
30°	6899	6133	5940
35°	6700	5873	5702
40°	6511	5634	5451
45°	6300	5403	5243
50°	6091	5174	5018
55°	5862	4940	4812
60°	5637	4699	4600
65°	5405	4444	4351
70°	5056	4156	4096
75°	4614	3828	3832
80°	4099	3498	3531
85°	3592	3230	3314

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6300 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.4	1.1
10°-20°	189.4	3.1
20°-30°	283.3	4.7
30°-40°	338.2	5.6
40°-50°	353.8	5.9
50°-60°	332.1	5.5
60°-70°	277.4	4.6
70°-80°	198.3	3.3
80°-90°	120.7	2.0
90°-100°	351.6	5.8
100°-110°	829.9	13.7
110°-120°	792.5	13.1
120°-130°	622.8	10.3
130°-140°	484.6	8.0
140°-150°	356.5	5.9
150°-160°	247.4	4.1
160°-170°	145.3	2.4
170°-180°	47.3	0.8
0°-30°	539.1	8.9
0°-40°	877.3	14.5
0°-60°	1563.2	25.9
0°-90°	2159.6	35.8
90°-120°	1974.0	32.7
90°-150°	3438.0	56.9
90°-180°	3878.0	64.2
0°-180°	6037.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	700	700	700	700	700	
5°	701	700	695	701	700	67
15°	668	670	669	677	676	188
25°	603	610	613	623	623	278
35°	519	531	541	552	556	324
45°	424	442	462	476	482	327
55°	324	349	376	397	403	290
65°	224	253	287	310	317	221
75°	121	157	195	220	230	130
85°	37	76	116	142	150	38
90°	12	59	111	140	148	10
95°	42	147	662	270	221	42
105°	121	194	852	1468	1343	128
115°	206	266	648	1391	1594	205
125°	284	335	592	1068	1252	253
135°	332	395	569	869	1004	256
145°	377	431	552	700	773	236
155°	428	462	535	608	634	197
165°	467	481	512	543	552	132
175°	487	488	491	498	497	46
180°	488	488	488	488	488	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	700.4	700.4	700.4	700.4	700.4
2.5°	704.2	702.0	695.9	702.0	701.2
5°	701.2	699.7	695.1	701.2	700.4
7.5°	695.9	695.9	691.3	698.9	698.1
10°	688.2	689.7	685.9	693.6	692.0
12.5°	679.1	681.4	679.1	685.9	684.4
15°	667.6	669.9	669.1	676.8	676.0
17.5°	653.9	658.5	657.7	664.6	663.0
20°	638.6	643.2	644.7	651.6	652.4
22.5°	622.6	627.2	629.5	638.6	637.9
25°	602.8	610.4	612.7	622.6	622.6
27.5°	583.7	592.1	596.7	605.1	605.8
30°	563.1	573.0	579.1	588.3	588.3
32.5°	540.2	551.6	560.0	570.0	572.2
35°	518.8	531.0	541.0	552.4	555.5
37.5°	495.9	509.7	521.1	534.1	536.4
40°	473.1	486.8	502.1	515.0	518.1
42.5°	447.9	465.4	481.5	495.9	500.5
45°	424.2	442.5	461.6	476.1	482.2
47.5°	399.0	419.6	441.0	457.0	461.6
50°	374.6	396.0	419.6	437.2	442.5
52.5°	348.7	371.6	398.3	416.6	423.5
55°	323.5	348.7	376.2	396.8	402.9
57.5°	299.1	325.0	354.8	375.4	382.3
60°	273.2	300.6	331.9	353.3	361.7
62.5°	248.7	277.0	310.5	331.9	339.5
65°	223.6	253.3	286.9	309.8	317.4
67.5°	198.4	229.7	263.2	288.4	294.5
70°	171.7	204.5	241.1	265.5	273.2
72.5°	147.3	180.1	218.2	243.4	251.0
75°	121.3	157.2	195.3	220.5	229.7
77.5°	99.2	135.1	173.2	199.9	206.8
80°	75.5	112.9	152.6	178.5	186.2
82.5°	54.9	93.1	133.5	159.5	167.1
85°	37.4	75.5	116.0	141.9	149.5
87.5°	22.9	61.0	100.0	125.9	133.5
90°	11.9	59.2	110.9	139.9	148.5
92.5°	24.0	101.3	263.9	168.0	164.6
95°	42.0	147.3	661.5	270.2	221.4
97.5°	61.0	160.2	972.3	523.7	336.7
100°	80.0	169.2	1002.3	987.8	715.7
102.5°	100.0	180.2	933.4	1287.4	1072.1
105°	120.7	193.9	851.8	1468.0	1342.6
107.5°	141.7	210.6	779.0	1544.3	1517.0
110°	164.7	227.8	718.8	1542.2	1614.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	186.4	246.0	676.8	1481.0	1630.7
115°	206.4	265.5	648.2	1391.4	1593.7
117.5°	227.1	283.2	626.9	1296.0	1520.0
120°	248.2	300.9	612.1	1205.4	1423.6
122.5°	267.0	318.4	601.4	1133.0	1334.2
125°	284.0	334.8	591.7	1068.2	1251.5
127.5°	297.8	351.8	584.9	1014.2	1179.7
130°	310.6	367.6	578.1	964.2	1119.0
132.5°	319.7	382.0	573.3	917.1	1060.8
135°	331.6	394.7	568.6	869.4	1004.1
137.5°	342.5	405.4	563.5	823.2	945.1
140°	352.6	415.4	559.5	779.0	884.0
142.5°	364.5	423.4	554.4	737.2	826.1
145°	377.3	431.4	552.4	700.4	773.1
147.5°	389.4	439.8	549.5	670.8	727.7
150°	402.2	446.7	545.5	645.8	688.3
152.5°	415.1	454.1	540.6	626.1	657.2
155°	427.9	461.5	534.6	607.8	633.5
157.5°	437.8	468.0	529.7	590.0	610.7
160°	449.7	473.4	523.8	573.7	589.0
162.5°	458.6	477.4	517.8	558.3	569.2
165°	467.4	480.8	511.9	543.0	552.4
167.5°	474.4	483.8	506.0	529.7	535.6
170°	480.3	485.2	500.1	517.8	520.8
172.5°	484.2	486.7	495.1	507.5	507.0
175°	487.2	487.7	491.2	498.1	497.1
177.5°	489.2	488.2	488.2	492.2	490.2
180°	488.2	488.2	488.2	488.2	488.2

(END OF REPORT)