

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: P1011822

Luminaire Tested: S123DIP-B560D585UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011822
REPORT IS A COMBINATION OF REPORTS P990128 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D585UB30-4F0-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

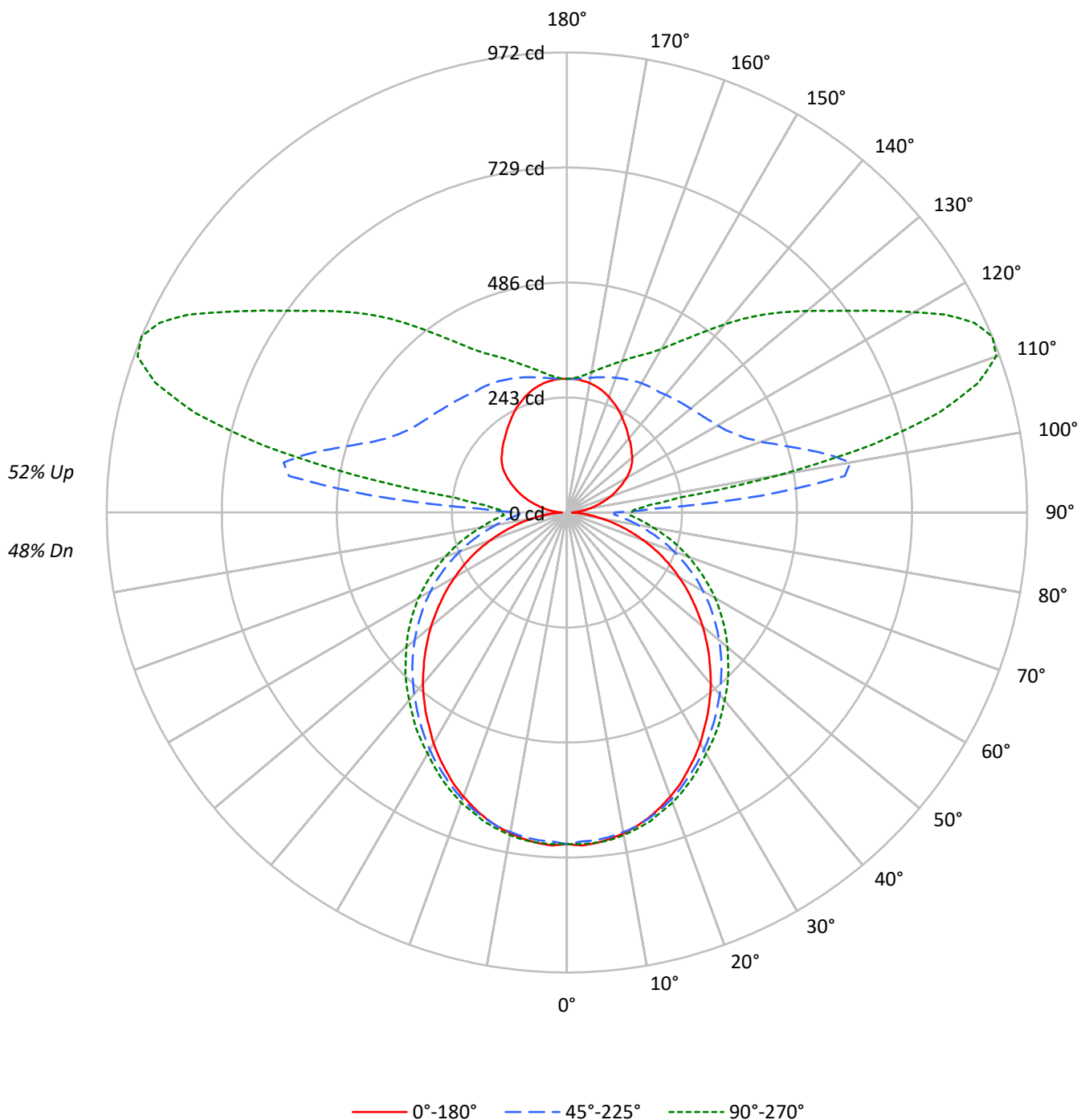
Lumens per Lamp: N/A
Luminaire Lumens: 4483.9 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54
1	96	92	87	83	88	84	81	77	71	68	65	58	56	54	46	45	44
2	87	79	73	67	80	73	67	63	61	57	53	50	47	45	40	38	36
3	79	69	62	56	73	64	57	52	54	49	44	44	40	37	35	33	30
4	72	61	53	47	66	57	49	44	48	42	38	39	35	32	31	28	26
5	66	54	46	40	61	50	43	37	42	37	32	35	31	27	28	25	22
6	61	49	40	34	56	45	38	32	38	32	28	32	27	24	26	22	20
7	56	44	36	30	52	41	33	28	34	29	25	29	24	21	23	20	17
8	52	40	32	26	48	37	30	25	31	26	22	26	22	19	21	18	15
9	49	36	29	23	45	34	27	22	29	23	19	24	20	17	20	16	14
10	45	33	26	21	42	31	24	20	26	21	17	22	18	15	18	15	13

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	1.5
10°-20°	189.4	4.2
20°-30°	283.3	6.3
30°-40°	338.2	7.5
40°-50°	353.8	7.9
50°-60°	332.1	7.4
60°-70°	277.4	6.2
70°-80°	198.3	4.4
80°-90°	119.6	2.7
90°-100°	234.6	5.2
100°-110°	502.9	11.2
110°-120°	473.6	10.6
120°-130°	368.9	8.2
130°-140°	284.1	6.3
140°-150°	207.0	4.6
150°-160°	143.0	3.2
160°-170°	84.0	1.9
170°-180°	27.3	0.6
0°-30°	539.1	12.0
0°-40°	877.3	19.6
0°-60°	1563.2	34.9
0°-90°	2158.5	48.1
90°-120°	1211.0	27.0
90°-150°	2071.1	46.2
90°-180°	2325.0	51.9
0°-180°	4483.9	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°	11	54	100	128	136	9
95°	28	101	414	198	173	27
105°	72	122	517	882	812	77
115°	121	159	392	829	949	120
125°	165	195	352	635	743	147
135°	192	228	333	512	592	149
145°	218	249	319	408	451	137
155°	247	267	309	351	366	114
165°	270	278	296	314	319	76
175°	282	282	284	288	287	27
180°	282	282	282	282	282	

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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°	11.0	54.2	100.5	128.2	136.4
92.5°	17.8	76.2	186.4	141.6	142.5
95°	27.8	101.2	414.4	198.0	173.1
97.5°	38.5	107.4	592.2	342.4	237.5
100°	49.2	111.0	607.6	608.5	454.4
102.5°	60.4	115.8	565.8	779.5	658.2
105°	72.4	122.4	516.6	882.0	812.4
107.5°	84.2	130.8	472.6	923.8	911.0
110°	97.2	139.4	436.2	920.7	965.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	109.7	148.7	410.0	883.0	972.5
115°	120.9	159.0	391.8	829.4	948.9
117.5°	132.9	167.9	377.6	772.2	904.3
120°	144.8	176.9	367.4	717.9	846.3
122.5°	155.7	186.0	359.6	674.2	792.7
125°	165.2	194.6	352.4	634.7	743.0
127.5°	173.2	204.1	346.9	601.6	699.5
130°	180.6	213.2	341.4	570.8	662.2
132.5°	185.5	221.5	337.0	541.6	626.9
135°	192.4	228.5	332.6	512.4	591.9
137.5°	198.6	234.8	328.4	483.8	555.8
140°	204.2	240.6	324.8	456.5	518.9
142.5°	211.1	244.8	320.6	430.5	483.4
145°	218.5	249.4	319.4	407.6	450.9
147.5°	225.1	254.3	317.7	388.9	423.0
150°	232.6	258.2	315.4	373.4	398.7
152.5°	240.0	262.5	312.6	362.0	380.0
155°	247.4	266.9	309.2	351.4	366.3
157.5°	253.1	270.5	306.3	341.2	353.2
160°	260.0	273.8	302.9	331.7	340.6
162.5°	265.1	276.0	299.4	322.9	329.2
165°	270.3	278.0	296.0	314.0	319.4
167.5°	274.3	279.8	292.6	306.3	309.7
170°	277.7	280.6	289.2	299.4	301.2
172.5°	280.0	281.4	286.3	293.4	293.2
175°	281.7	282.0	284.0	288.0	287.4
177.5°	282.9	282.3	282.3	284.6	283.4
180°	282.3	282.3	282.3	282.3	282.3

(END OF REPORT)