

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: P1011821

Luminaire Tested: S123DIP-B560D585UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011821
REPORT IS A COMBINATION OF REPORTS P990127 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-D1
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

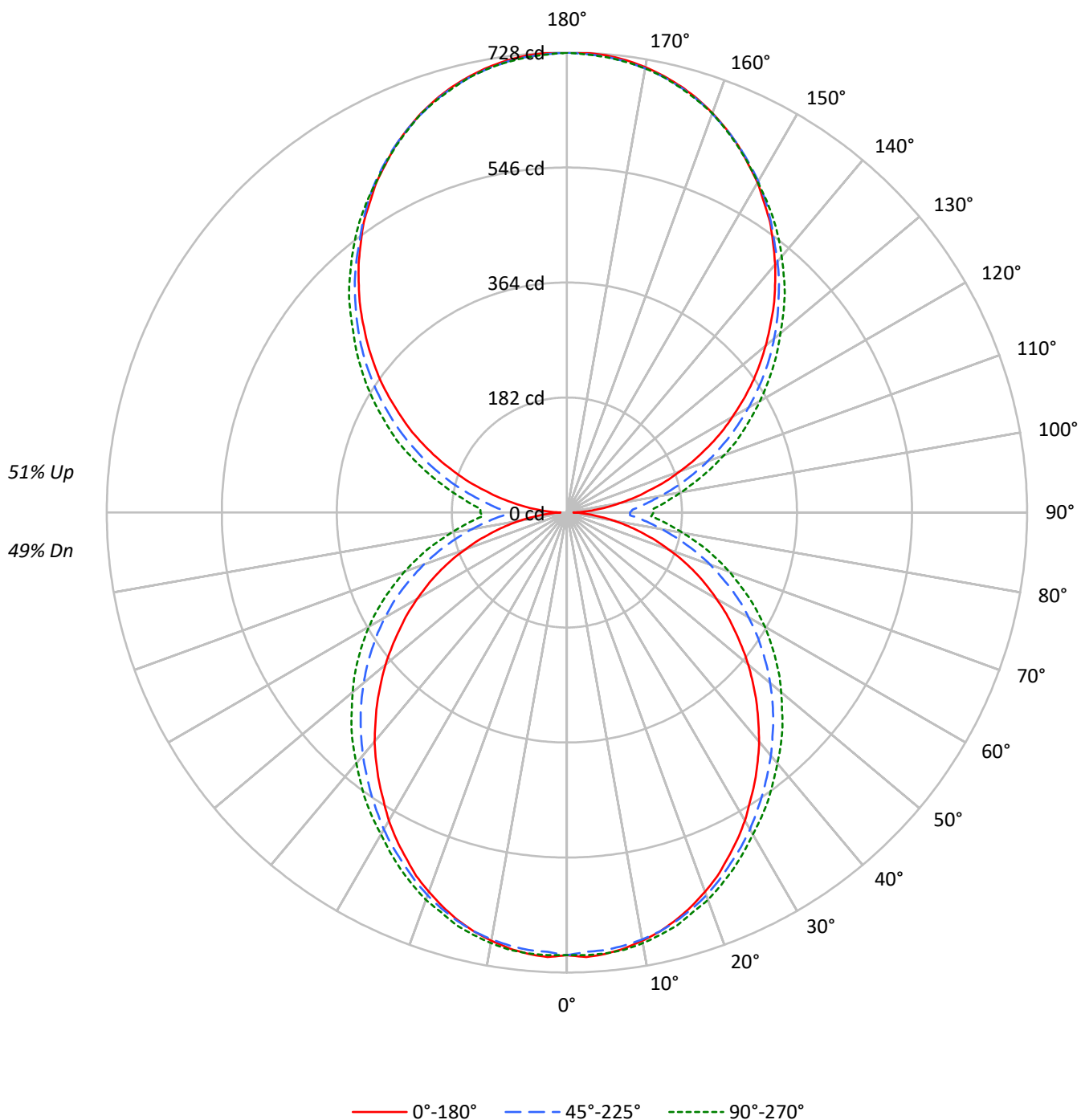
Lumens per Lamp: N/A
Luminaire Lumens: 4372.0 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	50	30	10
RCR																				
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	49		
1	97	92	88	84	89	85	81	78	71	68	66	59	57	55	47	46	45	39		
2	88	80	73	68	80	73	68	63	62	57	54	51	48	45	41	39	37	32		
3	80	70	62	56	73	64	57	52	54	49	45	45	41	38	36	33	31	27		
4	73	61	53	47	67	57	49	44	48	42	38	40	35	32	32	29	26	23		
5	67	55	46	40	61	50	43	37	43	37	32	36	31	28	29	26	23	20		
6	61	49	40	34	56	45	38	32	38	33	28	32	28	24	26	23	20	17		
7	57	44	36	30	52	41	33	28	35	29	25	29	25	21	24	20	18	15		
8	52	40	32	27	48	37	30	25	32	26	22	27	22	19	22	18	16	13		
9	49	36	29	24	45	34	27	22	29	23	20	24	20	17	20	17	14	12		
10	46	33	26	21	42	31	24	20	27	21	18	23	18	15	19	15	13	11		

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	4.3
20°-30°	283.3	6.5
30°-40°	338.2	7.7
40°-50°	353.8	8.1
50°-60°	332.1	7.6
60°-70°	277.4	6.3
70°-80°	198.3	4.5
80°-90°	119.5	2.7
90°-100°	121.0	2.8
100°-110°	196.3	4.5
110°-120°	277.8	6.4
120°-130°	338.3	7.7
130°-140°	366.3	8.4
140°-150°	352.9	8.1
150°-160°	295.5	6.8
160°-170°	196.7	4.5
170°-180°	68.9	1.6
0°-30°	539.1	12.3
0°-40°	877.3	20.1
0°-60°	1563.2	35.8
0°-90°	2158.4	49.4
90°-120°	595.1	13.6
90°-150°	1652.6	37.8
90°-180°	2214.0	50.6
0°-180°	4372.0	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°	10	54	100	128	137	10
95°	42	76	118	144	151	44
105°	135	154	192	214	222	144
115°	247	258	284	303	308	244
125°	358	360	381	394	397	319
135°	463	466	473	485	488	357
145°	560	561	562	568	569	350
155°	641	641	641	644	640	295
165°	698	696	696	700	696	197
175°	726	724	724	727	723	69
180°	728	728	728	728	728	

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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°	10.5	53.6	99.9	128.2	137.0
92.5°	26.4	62.6	104.1	131.0	136.8
95°	42.1	75.8	117.8	143.8	151.4
97.5°	63.1	93.4	132.7	158.4	165.5
100°	84.6	112.5	150.4	174.3	183.0
102.5°	109.6	132.7	171.0	194.1	201.1
105°	134.7	154.2	192.1	213.5	221.6
107.5°	163.7	180.3	213.8	236.1	242.5
110°	190.4	205.2	236.9	259.1	264.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	219.0	230.3	259.3	281.1	288.0
115°	246.8	257.7	283.9	302.9	308.4
117.5°	275.9	282.6	307.4	325.7	330.1
120°	302.1	309.3	331.6	348.6	352.7
122.5°	330.1	333.9	356.3	371.4	375.1
125°	357.9	359.6	380.6	394.3	397.4
127.5°	384.2	386.8	404.8	416.6	419.7
130°	410.5	414.3	427.8	440.1	440.6
132.5°	436.0	440.6	450.9	461.7	464.2
135°	462.8	465.6	473.4	484.8	487.5
137.5°	487.4	489.6	496.6	505.9	508.0
140°	512.5	515.3	518.2	529.0	528.8
142.5°	535.9	538.0	539.1	548.4	549.4
145°	560.5	560.8	562.5	568.1	568.9
147.5°	580.8	583.1	584.8	587.1	586.7
150°	603.1	604.3	605.4	605.4	603.5
152.5°	621.4	623.1	623.7	624.8	622.0
155°	640.9	640.9	641.4	643.7	639.7
157.5°	657.4	656.9	657.4	659.7	656.3
160°	672.9	671.7	671.7	674.6	672.3
162.5°	686.6	684.9	685.4	688.3	684.3
165°	698.0	696.3	696.3	699.7	695.7
167.5°	707.7	705.5	706.0	709.5	706.0
170°	715.7	713.5	713.5	717.5	713.5
172.5°	722.0	719.7	719.7	723.2	719.2
175°	726.0	723.7	723.7	727.2	723.2
177.5°	728.3	726.0	726.0	729.5	725.5
180°	727.7	727.7	727.7	727.7	727.7

(END OF REPORT)