

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: P1011780

Luminaire Tested: S123DIP-B560D365UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011780
REPORT IS A COMBINATION OF REPORTS P990068 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D365UB30-4F0-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

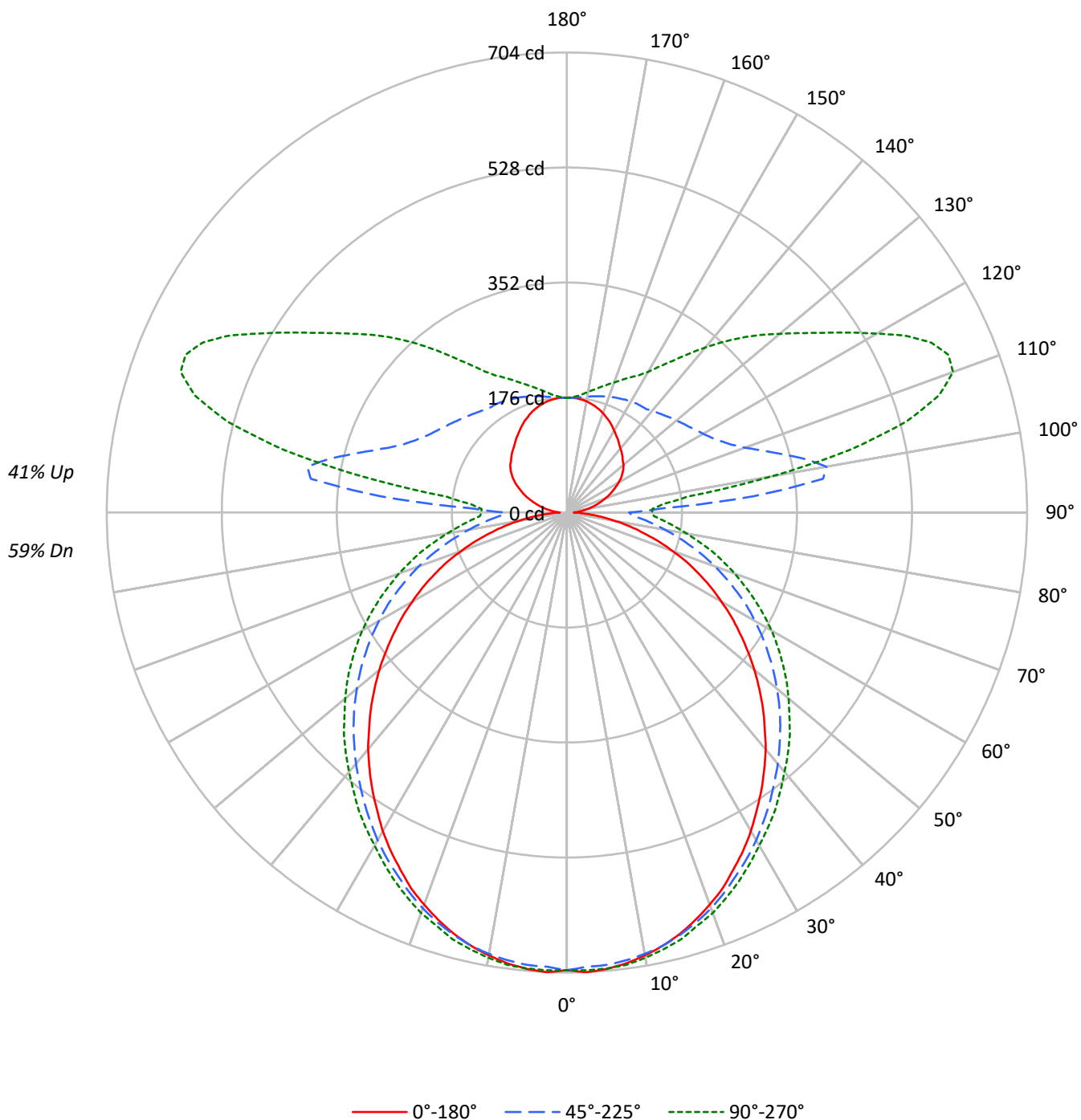
Lumens per Lamp: N/A
Luminaire Lumens: 3679.1 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 33.3
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64
1	98	94	89	85	92	87	83	80	75	73	70	65	62	60	55	53	52
2	89	81	74	69	83	76	70	65	65	61	57	56	53	50	47	45	43
3	81	71	63	57	75	66	59	53	57	52	47	49	45	41	42	38	36
4	74	62	54	48	69	58	51	45	51	45	40	44	39	35	37	33	30
5	68	56	47	41	63	52	44	38	45	39	34	39	34	30	33	29	26
6	62	50	41	35	58	47	39	33	41	35	30	35	30	26	30	26	23
7	58	45	37	31	54	42	35	29	37	31	26	32	27	23	27	23	20
8	54	41	33	27	50	38	31	26	34	28	23	29	24	21	25	21	18
9	50	37	29	24	46	35	28	23	31	25	21	27	22	19	23	19	16
10	47	34	27	22	43	32	25	21	28	23	19	25	20	17	22	18	15

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	1.8
10°-20°	189.4	5.1
20°-30°	283.3	7.7
30°-40°	338.2	9.2
40°-50°	353.8	9.6
50°-60°	332.1	9.0
60°-70°	277.4	7.5
70°-80°	198.3	5.4
80°-90°	119.0	3.2
90°-100°	173.9	4.7
100°-110°	333.4	9.1
110°-120°	308.4	8.4
120°-130°	237.3	6.5
130°-140°	180.3	4.9
140°-150°	129.5	3.5
150°-160°	89.0	2.4
160°-170°	52.3	1.4
170°-180°	17.0	0.5
0°-30°	539.1	14.7
0°-40°	877.3	23.8
0°-60°	1563.2	42.5
0°-90°	2157.9	58.7
90°-120°	815.8	22.2
90°-150°	1362.9	37.0
90°-180°	1521.0	41.3
0°-180°	3679.1	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	52	95	122	130	8
95°	20	77	286	161	148	19
105°	47	85	343	578	538	50
115°	77	104	259	538	615	76
125°	104	122	228	410	480	92
135°	120	142	210	327	378	93
145°	136	155	199	256	284	85
155°	154	166	192	219	228	71
165°	168	173	184	195	199	47
175°	175	175	177	179	179	17
180°	176	176	176	176	176	

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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°	10.6	51.6	95.1	122.2	130.1
92.5°	14.5	63.3	146.2	127.8	131.0
95°	20.5	77.4	286.3	160.7	148.0
97.5°	26.8	80.1	395.2	248.4	186.1
100°	33.2	80.9	403.1	412.0	319.0
102.5°	39.9	82.4	375.4	516.4	443.8
105°	47.3	85.4	343.0	578.4	537.7
107.5°	54.4	89.4	313.9	602.4	597.0
110°	62.2	93.6	289.8	598.8	628.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	70.0	98.3	271.8	573.3	631.5
115°	76.7	103.8	259.0	538.2	614.9
117.5°	84.1	108.2	248.5	500.9	585.4
120°	91.3	112.6	240.7	465.4	547.3
122.5°	98.0	117.5	234.4	436.4	512.2
125°	103.6	121.9	228.5	410.1	479.5
127.5°	108.6	127.5	223.6	387.8	450.7
130°	113.2	133.2	218.7	366.9	425.5
132.5°	116.0	138.4	214.6	347.0	402.1
135°	120.2	142.5	210.4	327.4	378.3
137.5°	124.1	146.4	206.6	307.8	354.1
140°	127.4	150.0	203.2	289.5	329.7
142.5°	131.6	152.3	199.4	271.6	305.9
145°	136.2	155.2	198.7	255.8	284.0
147.5°	140.1	158.2	197.7	242.8	265.2
150°	144.7	160.7	196.2	232.3	248.6
152.5°	149.3	163.4	194.5	225.2	236.4
155°	153.9	166.0	192.3	218.6	227.9
157.5°	157.5	168.4	190.6	212.2	219.7
160°	161.8	170.3	188.4	206.4	211.9
162.5°	165.0	171.7	186.3	200.9	204.8
165°	168.2	173.0	184.2	195.4	198.7
167.5°	170.6	174.0	182.0	190.6	192.7
170°	172.8	174.6	179.9	186.2	187.4
172.5°	174.2	175.1	178.1	182.6	182.4
175°	175.3	175.4	176.7	179.2	178.8
177.5°	176.0	175.6	175.6	177.0	176.3
180°	175.6	175.6	175.6	175.6	175.6

(END OF REPORT)