

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: P1011816

Luminaire Tested: S123DIP-B560D585UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011816
REPORT IS A COMBINATION OF REPORTS P990107 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D585UB27-4F0-XX-W2A-F4
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

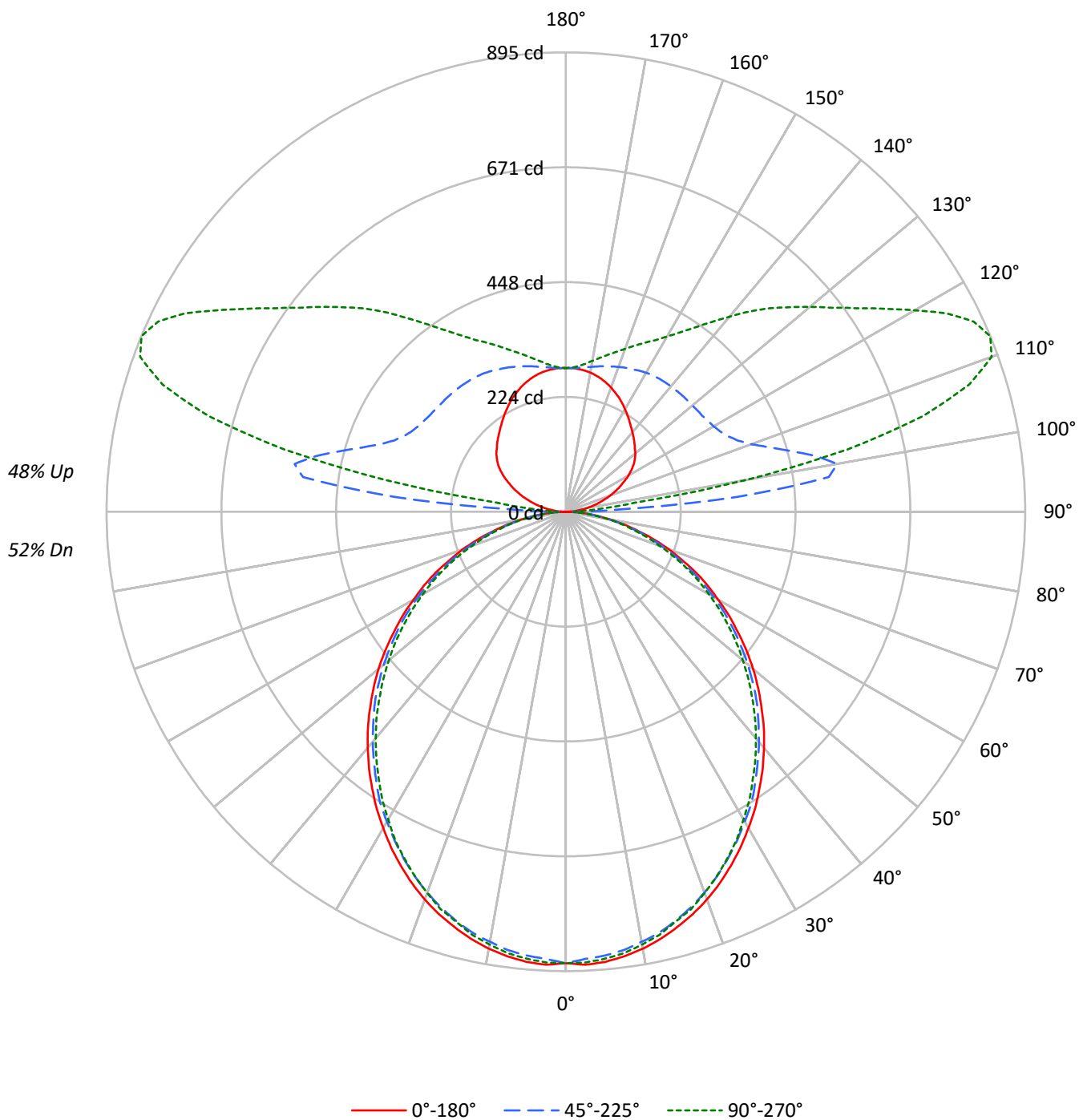
Lumens per Lamp: N/A
Luminaire Lumens: 4400.9 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	108	108	108	108	100	100	100	100	84	84	84	71	71	71	58	58	58
1	98	94	90	86	91	87	84	80	74	72	69	62	60	59	51	50	49
2	89	82	76	70	82	76	71	66	65	61	57	55	52	49	45	43	41
3	82	72	65	59	75	67	60	55	57	52	48	48	45	41	40	37	35
4	75	64	56	50	69	59	52	47	51	45	41	43	39	35	36	33	30
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	32	29	26
6	63	51	43	37	58	47	40	35	41	35	31	35	30	27	29	26	23
7	58	46	38	32	54	43	36	31	37	31	27	32	27	24	27	23	21
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18
9	50	38	31	25	47	36	29	24	31	25	22	27	22	19	23	19	17
10	47	35	28	23	44	33	26	22	29	23	19	25	20	17	21	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9467	9467	9467
5°	9491	9141	9126
10°	9406	8831	8741
15°	9275	8509	8320
20°	9125	8152	7902
25°	8932	7775	7456
30°	8719	7385	6987
35°	8496	6987	6521
40°	8264	6568	6063
45°	8008	6161	5583
50°	7747	5706	5103
55°	7413	5233	4615
60°	7069	4712	4097
65°	6747	4146	3556
70°	6281	3520	2925
75°	5611	2788	2271
80°	4843	1960	1606
85°	3775	1053	805

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8008 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.9	1.9
10°-20°	234.1	5.3
20°-30°	345.8	7.9
30°-40°	403.8	9.2
40°-50°	406.0	9.2
50°-60°	356.6	8.1
60°-70°	265.6	6.0
70°-80°	151.1	3.4
80°-90°	44.5	1.0
90°-100°	159.1	3.6
100°-110°	444.6	10.1
110°-120°	433.5	9.9
120°-130°	345.2	7.8
130°-140°	272.5	6.2
140°-150°	203.3	4.6
150°-160°	141.8	3.2
160°-170°	83.3	1.9
170°-180°	27.1	0.6
0°-30°	662.8	15.1
0°-40°	1066.7	24.2
0°-60°	1829.3	41.6
0°-90°	2290.6	52.0
90°-120°	1037.2	23.6
90°-150°	1858.1	42.2
90°-180°	2110.0	47.9
0°-180°	4400.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	880	880	880	880	880	
5°	880	876	868	876	874	83
15°	838	835	825	831	827	236
25°	761	756	746	747	745	350
35°	658	653	644	639	635	412
45°	539	536	526	517	514	416
55°	409	408	398	390	386	367
65°	279	275	268	262	259	275
75°	148	144	142	138	136	158
85°	39	38	38	36	36	42
90°	1	7	14	16	16	4
95°	19	63	336	98	66	20
105°	66	97	456	797	721	70
115°	116	145	348	764	876	115
125°	162	191	325	589	691	143
135°	189	226	321	485	560	146
145°	216	247	317	398	438	135
155°	245	265	306	348	363	113
165°	268	276	294	311	317	76
175°	279	280	282	286	285	27
180°	280	280	280	280	280	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	879.5	879.5	879.5	879.5	879.5
2.5°	883.3	880.3	872.0	879.5	878.8
5°	880.3	876.5	868.2	875.7	874.2
7.5°	873.5	869.7	861.4	868.2	867.4
10°	864.4	860.6	850.8	857.6	856.1
12.5°	852.3	849.3	840.2	844.7	844.0
15°	837.9	834.9	825.1	831.1	826.6
17.5°	822.0	818.3	808.4	813.0	811.5
20°	803.9	799.4	789.5	792.6	790.3
22.5°	783.5	778.9	769.1	771.4	768.4
25°	760.8	756.3	746.4	747.2	744.9
27.5°	737.3	732.8	722.2	723.0	720.7
30°	711.6	707.9	697.3	697.3	692.0
32.5°	685.9	680.6	673.1	667.8	665.5
35°	657.9	653.4	643.6	639.0	635.3
37.5°	630.0	623.9	614.1	608.8	606.5
40°	600.5	595.9	585.3	579.3	576.3
42.5°	571.0	565.7	555.1	549.0	546.0
45°	539.2	536.2	526.4	517.3	513.5
47.5°	508.2	503.7	494.6	485.5	482.5
50°	476.4	472.7	462.8	454.5	450.0
52.5°	443.2	440.9	430.3	423.5	419.0
55°	409.1	408.4	398.5	390.2	386.4
57.5°	377.4	374.3	366.8	359.2	354.7
60°	342.6	341.8	332.8	325.9	322.2
62.5°	311.6	309.3	300.2	293.4	291.2
65°	279.1	275.3	267.7	261.7	259.4
67.5°	244.3	241.2	235.2	229.9	226.9
70°	213.3	208.7	204.2	198.9	195.1
72.5°	180.7	177.7	172.4	167.9	166.4
75°	147.5	144.4	142.2	138.4	136.1
77.5°	118.0	116.5	113.4	110.4	110.4
80°	89.2	87.0	85.5	84.7	84.7
82.5°	61.3	61.3	61.3	59.7	59.0
85°	39.3	37.8	37.8	36.3	36.3
87.5°	19.7	17.4	16.6	15.9	15.9
90°	1.1	6.8	14.2	15.8	16.4
92.5°	8.5	34.0	105.4	36.0	30.0
95°	19.3	62.6	336.0	98.0	65.7
97.5°	30.6	71.7	516.7	246.5	134.9
100°	41.9	79.0	536.6	515.6	355.3
102.5°	53.8	87.6	499.7	690.4	562.6
105°	65.7	97.2	455.5	796.6	720.7
107.5°	78.2	108.5	416.5	843.4	823.8
110°	91.8	120.2	384.2	844.8	882.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	104.3	132.4	362.6	812.8	894.7
115°	116.2	144.8	348.5	764.0	876.5
117.5°	128.1	156.6	338.8	711.9	836.9
120°	140.5	168.6	332.6	662.6	784.7
122.5°	151.3	179.8	328.6	623.8	736.0
125°	161.5	190.6	325.2	589.2	691.3
127.5°	169.4	200.8	323.5	561.0	652.7
130°	176.8	210.0	321.8	534.8	621.0
132.5°	182.4	218.2	321.3	510.5	589.8
135°	189.2	225.8	320.7	485.2	560.4
137.5°	195.5	232.0	319.6	461.4	529.2
140°	201.7	237.7	319.0	438.2	496.3
142.5°	208.5	242.8	317.9	417.0	465.7
145°	215.9	247.3	316.7	398.0	438.0
147.5°	223.2	252.2	315.0	383.4	414.2
150°	230.6	256.1	312.8	370.3	393.8
152.5°	238.0	260.4	309.9	359.0	376.8
155°	245.3	264.6	306.5	348.5	363.2
157.5°	251.0	268.3	303.7	338.2	350.2
160°	257.8	271.4	300.3	328.9	337.7
162.5°	262.9	273.6	296.9	320.1	326.4
165°	268.0	275.6	293.5	311.4	316.7
167.5°	272.0	277.4	290.1	303.7	307.1
170°	275.4	278.2	286.7	296.9	298.6
172.5°	277.6	279.0	283.9	291.0	290.7
175°	279.3	279.6	281.6	285.6	285.0
177.5°	280.5	279.9	279.9	282.2	281.0
180°	279.9	279.9	279.9	279.9	279.9

(END OF REPORT)