

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: P1011543

Luminaire Tested: S123DIP-B340D1195UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011543
REPORT IS A COMBINATION OF REPORTS P989735 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D1195UB50-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

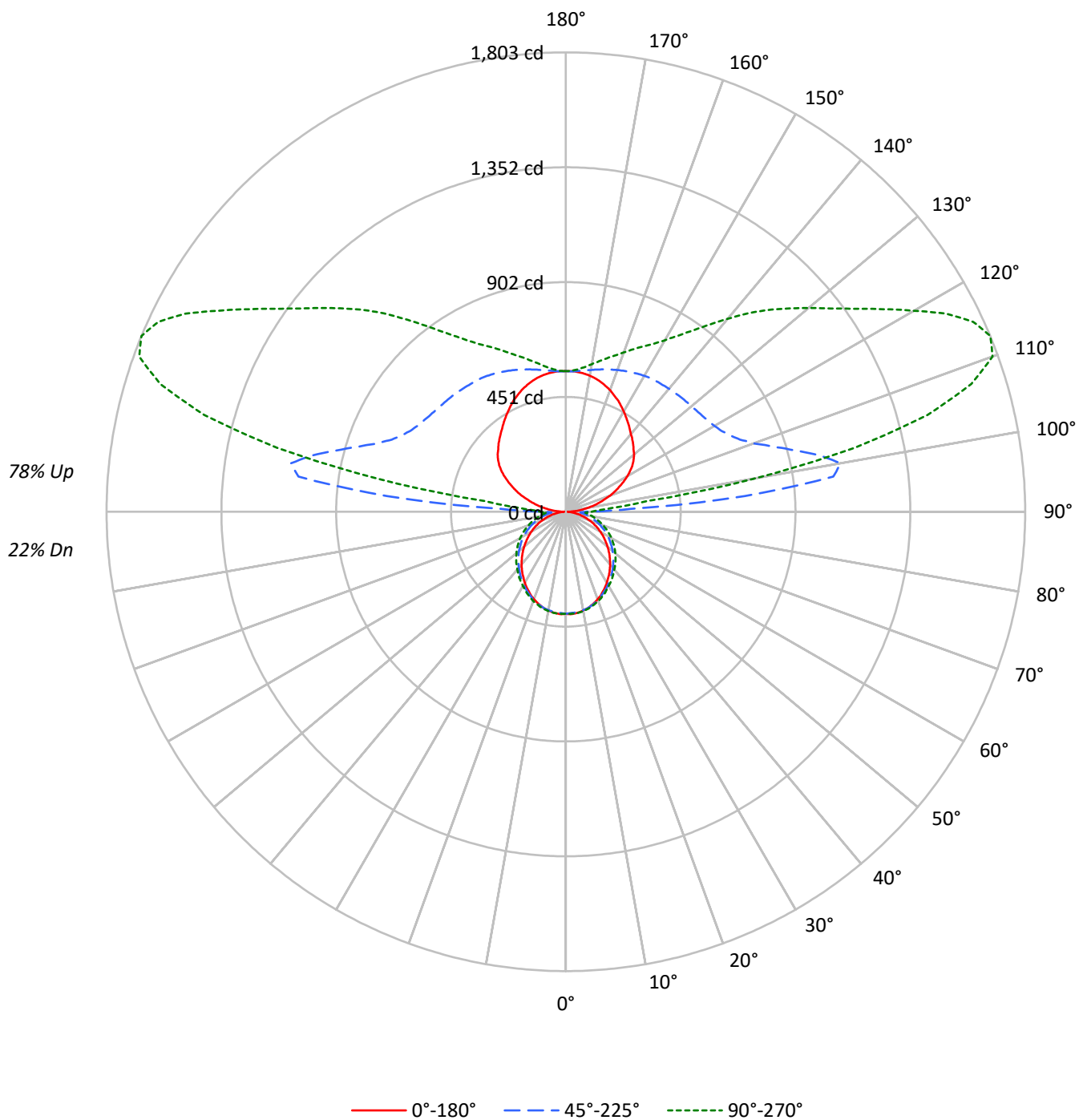
Lumens per Lamp: N/A
Luminaire Lumens: 5507.7 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
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	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31
1	91	87	83	79	81	77	74	71	59	57	55	42	41	39	26	26	25
2	83	75	69	64	73	67	62	58	51	48	45	36	34	32	23	22	21
3	75	66	59	53	66	59	53	48	45	41	37	32	29	27	20	19	17
4	69	58	51	45	61	52	45	40	40	35	32	28	25	23	18	16	15
5	63	52	44	38	55	46	39	34	35	31	27	25	22	20	16	14	13
6	58	46	38	33	51	41	34	29	32	27	23	23	20	17	14	13	11
7	53	41	34	28	47	37	30	26	29	24	20	21	17	15	13	11	10
8	49	37	30	25	43	33	27	22	26	21	18	19	16	13	12	10	9
9	46	34	27	22	40	30	24	20	24	19	16	17	14	12	11	9	8
10	43	31	24	19	38	28	22	18	22	17	14	16	13	11	10	8	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4311	4311	4311
5°	4322	4184	4181
10°	4282	4071	4040
15°	4225	3946	3890
20°	4146	3807	3730
25°	4047	3649	3563
30°	3945	3507	3397
35°	3832	3358	3260
40°	3723	3222	3116
45°	3603	3089	2998
50°	3483	2959	2869
55°	3352	2824	2752
60°	3223	2687	2630
65°	3089	2540	2488
70°	2892	2377	2342
75°	2640	2190	2191
80°	2345	2001	2020
85°	2056	1846	1895

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3603 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.0	0.7
10°-20°	108.3	2.0
20°-30°	162.0	2.9
30°-40°	193.4	3.5
40°-50°	202.3	3.7
50°-60°	189.9	3.4
60°-70°	158.6	2.9
70°-80°	113.4	2.1
80°-90°	70.6	1.3
90°-100°	355.8	6.5
100°-110°	907.3	16.5
110°-120°	875.1	15.9
120°-130°	692.1	12.6
130°-140°	542.3	9.8
140°-150°	401.7	7.3
150°-160°	279.5	5.1
160°-170°	164.2	3.0
170°-180°	53.4	1.0
0°-30°	308.3	5.6
0°-40°	501.6	9.1
0°-60°	893.8	16.2
0°-90°	1236.4	22.4
90°-120°	2138.2	38.8
90°-150°	3774.2	68.5
90°-180°	4271.0	77.5
0°-180°	5507.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	400	400	400	400	400	
5°	401	400	397	401	400	38
15°	382	383	383	387	386	108
25°	345	349	350	356	356	159
35°	297	304	309	316	318	186
45°	243	253	264	272	276	187
55°	185	199	215	227	230	166
65°	128	145	164	177	182	126
75°	69	90	112	126	131	74
85°	21	43	66	81	86	22
90°	8	40	77	95	101	7
95°	43	145	705	250	191	44
105°	133	206	930	1615	1469	141
115°	231	293	710	1539	1764	229
125°	320	377	655	1184	1388	284
135°	374	445	637	969	1120	289
145°	426	487	624	788	868	267
155°	484	521	604	687	716	222
165°	528	543	578	614	624	149
175°	550	551	555	563	562	52
180°	552	552	552	552	552	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	400.5	400.5	400.5	400.5	400.5
2.5°	402.7	401.4	397.9	401.4	400.9
5°	400.9	400.1	397.4	400.9	400.5
7.5°	397.9	397.9	395.3	399.6	399.2
10°	393.5	394.4	392.2	396.6	395.7
12.5°	388.3	389.6	388.3	392.2	391.3
15°	381.7	383.1	382.6	387.0	386.5
17.5°	373.9	376.5	376.1	380.0	379.1
20°	365.2	367.8	368.7	372.6	373.0
22.5°	356.0	358.6	359.9	365.2	364.7
25°	344.7	349.0	350.3	356.0	356.0
27.5°	333.8	338.6	341.2	346.0	346.4
30°	322.0	327.6	331.1	336.4	336.4
32.5°	308.9	315.4	320.2	325.9	327.2
35°	296.7	303.6	309.3	315.9	317.6
37.5°	283.6	291.4	298.0	305.4	306.7
40°	270.5	278.3	287.1	294.5	296.2
42.5°	256.1	266.1	275.3	283.6	286.2
45°	242.6	253.0	263.9	272.2	275.7
47.5°	228.2	240.0	252.2	261.3	263.9
50°	214.2	226.4	240.0	250.0	253.0
52.5°	199.4	212.5	227.7	238.2	242.1
55°	185.0	199.4	215.1	226.9	230.4
57.5°	171.0	185.9	202.9	214.6	218.6
60°	156.2	171.9	189.8	202.0	206.8
62.5°	142.2	158.4	177.6	189.8	194.1
65°	127.8	144.8	164.0	177.1	181.5
67.5°	113.4	131.3	150.5	164.9	168.4
70°	98.2	116.9	137.9	151.8	156.2
72.5°	84.2	103.0	124.8	139.2	143.5
75°	69.4	89.9	111.7	126.1	131.3
77.5°	56.7	77.2	99.0	114.3	118.2
80°	43.2	64.6	87.3	102.1	106.5
82.5°	31.4	53.2	76.3	91.2	95.5
85°	21.4	43.2	66.3	81.1	85.5
87.5°	13.1	34.9	57.2	72.0	76.3
90°	7.9	40.4	77.2	95.4	100.9
92.5°	21.9	91.0	253.5	131.1	123.3
95°	42.8	145.2	705.3	249.9	190.6
97.5°	64.7	161.3	1058.9	539.4	323.7
100°	86.5	173.6	1095.4	1066.6	755.1
102.5°	109.6	188.2	1020.1	1408.1	1160.6
105°	133.0	205.5	930.4	1614.8	1469.1
107.5°	157.2	226.0	850.8	1703.8	1669.2
110°	183.5	247.2	784.9	1704.0	1782.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	208.0	269.4	739.9	1637.9	1803.1
115°	231.1	292.6	709.8	1539.2	1764.4
117.5°	254.5	314.4	688.2	1433.9	1683.6
120°	278.6	336.0	673.7	1334.2	1577.8
122.5°	299.8	357.1	663.7	1255.0	1479.2
125°	319.5	377.0	654.9	1184.3	1388.4
127.5°	335.1	396.7	649.3	1125.9	1309.8
130°	349.7	414.6	643.8	1071.9	1244.2
132.5°	360.4	430.8	640.5	1021.3	1180.6
135°	373.8	445.4	637.2	969.4	1119.6
137.5°	386.1	457.6	633.2	919.9	1055.5
140°	397.9	468.8	630.3	871.9	988.6
142.5°	411.3	478.4	626.4	827.5	925.7
145°	425.8	487.4	624.1	787.9	868.3
147.5°	439.9	496.8	620.8	756.6	819.3
150°	454.4	504.6	616.3	729.6	776.9
152.5°	468.9	513.0	610.7	707.3	742.5
155°	483.5	521.4	604.0	686.7	715.7
157.5°	494.6	528.6	598.5	666.6	690.0
160°	508.0	534.8	591.8	648.2	665.5
162.5°	518.1	539.3	585.1	630.8	643.1
165°	528.1	543.2	578.4	613.5	624.1
167.5°	535.9	546.6	571.7	598.4	605.2
170°	542.6	548.2	565.0	585.0	588.4
172.5°	547.1	549.9	559.4	573.3	572.8
175°	550.5	551.0	554.9	562.7	561.6
177.5°	552.7	551.6	551.6	556.0	553.8
180°	551.6	551.6	551.6	551.6	551.6

(END OF REPORT)