

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: P1011525

Luminaire Tested: S123DIP-B340D1195UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011525
REPORT IS A COMBINATION OF REPORTS P989717 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D1195UB35-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

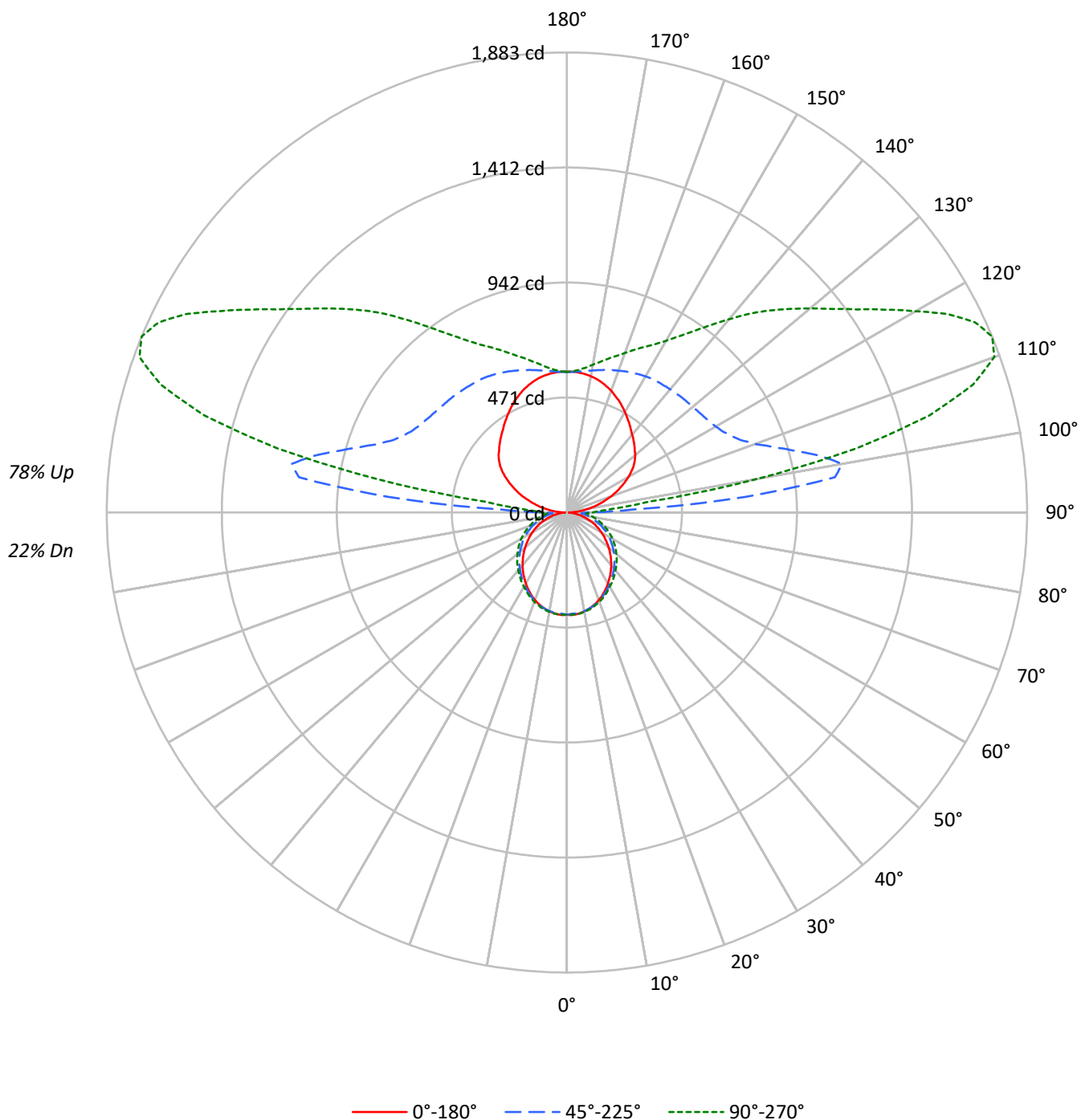
Lumens per Lamp: N/A
Luminaire Lumens: 5751.1 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	50	30	10
RCR																				
0	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31			22
1	91	87	83	79	81	77	74	71	59	57	55	42	41	39	26	26	25			18
2	83	75	69	64	73	67	62	58	51	48	45	36	34	32	23	22	21			15
3	75	66	59	53	66	59	53	48	45	41	37	32	29	27	20	19	17			12
4	69	58	51	45	61	52	45	40	40	35	32	28	25	23	18	16	15			10
5	63	52	44	38	55	46	39	34	35	31	27	25	22	20	16	14	13			9
6	58	46	38	33	51	41	34	29	32	27	23	23	20	17	14	13	11			8
7	53	41	34	28	47	37	30	26	29	24	20	21	17	15	13	11	10			7
8	49	37	30	25	43	33	27	22	26	21	18	19	16	13	12	10	9			6
9	46	34	27	22	40	30	24	20	24	19	16	17	14	12	11	9	8			5
10	43	31	24	19	38	28	22	18	22	17	14	16	13	11	10	8	7			5

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4500	4500	4500
5°	4512	4368	4365
10°	4470	4250	4217
15°	4411	4119	4061
20°	4327	3973	3894
25°	4224	3809	3720
30°	4118	3660	3545
35°	4000	3505	3403
40°	3885	3363	3253
45°	3760	3225	3129
50°	3636	3089	2995
55°	3499	2948	2872
60°	3363	2805	2746
65°	3225	2652	2597
70°	3019	2481	2444
75°	2754	2286	2287
80°	2448	2088	2107
85°	2142	1927	1979

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3760 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.7	0.7
10°-20°	113.1	2.0
20°-30°	169.1	2.9
30°-40°	201.9	3.5
40°-50°	211.2	3.7
50°-60°	198.2	3.4
60°-70°	165.5	2.9
70°-80°	118.4	2.1
80°-90°	73.7	1.3
90°-100°	371.6	6.5
100°-110°	947.5	16.5
110°-120°	913.8	15.9
120°-130°	722.8	12.6
130°-140°	566.3	9.8
140°-150°	419.5	7.3
150°-160°	291.9	5.1
160°-170°	171.5	3.0
170°-180°	55.8	1.0
0°-30°	321.8	5.6
0°-40°	523.6	9.1
0°-60°	933.0	16.2
0°-90°	1290.6	22.4
90°-120°	2232.8	38.8
90°-150°	3941.4	68.5
90°-180°	4460.0	77.6
0°-180°	5751.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	418	418	418	418	418	
5°	418	418	415	418	418	40
15°	398	400	399	404	404	112
25°	360	364	366	372	372	166
35°	310	317	323	330	332	194
45°	253	264	276	284	288	195
55°	193	208	224	237	240	173
65°	133	151	171	185	189	132
75°	72	94	117	132	137	77
85°	22	45	69	85	89	23
90°	8	42	81	100	105	7
95°	45	152	736	261	199	46
105°	139	215	972	1686	1534	147
115°	241	306	741	1607	1842	239
125°	334	394	684	1237	1450	297
135°	390	465	666	1012	1169	302
145°	445	509	652	823	907	279
155°	505	545	631	717	747	232
165°	552	567	604	641	652	155
175°	575	575	580	588	586	55
180°	576	576	576	576	576	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	418.1	418.1	418.1	418.1	418.1
2.5°	420.3	419.0	415.3	419.0	418.5
5°	418.5	417.6	414.9	418.5	418.1
7.5°	415.3	415.3	412.6	417.1	416.7
10°	410.8	411.7	409.4	414.0	413.0
12.5°	405.3	406.7	405.3	409.4	408.5
15°	398.5	399.8	399.4	403.9	403.5
17.5°	390.3	393.0	392.6	396.7	395.7
20°	381.2	383.9	384.8	388.9	389.4
22.5°	371.6	374.3	375.7	381.2	380.7
25°	359.8	364.3	365.7	371.6	371.6
27.5°	348.4	353.4	356.1	361.1	361.6
30°	336.1	342.0	345.6	351.1	351.1
32.5°	322.4	329.3	334.3	340.2	341.6
35°	309.7	317.0	322.9	329.7	331.5
37.5°	296.0	304.2	311.0	318.8	320.1
40°	282.3	290.5	299.7	307.4	309.2
42.5°	267.3	277.8	287.4	296.0	298.7
45°	253.2	264.1	275.5	284.2	287.8
47.5°	238.2	250.5	263.2	272.8	275.5
50°	223.6	236.4	250.5	260.9	264.1
52.5°	208.1	221.8	237.7	248.6	252.7
55°	193.1	208.1	224.5	236.8	240.5
57.5°	178.5	194.0	211.8	224.1	228.2
60°	163.0	179.4	198.1	210.9	215.9
62.5°	148.5	165.3	185.3	198.1	202.7
65°	133.4	151.2	171.2	184.9	189.4
67.5°	118.4	137.1	157.1	172.1	175.8
70°	102.5	122.0	143.9	158.5	163.0
72.5°	87.9	107.5	130.2	145.3	149.8
75°	72.4	93.8	116.6	131.6	137.1
77.5°	59.2	80.6	103.4	119.3	123.4
80°	45.1	67.4	91.1	106.6	111.1
82.5°	32.8	55.6	79.7	95.2	99.7
85°	22.3	45.1	69.2	84.7	89.3
87.5°	13.7	36.4	59.7	75.1	79.7
90°	8.2	42.2	80.7	99.6	105.3
92.5°	23.0	95.0	264.7	136.8	128.7
95°	44.6	151.6	736.5	260.9	199.1
97.5°	67.6	168.4	1105.8	563.2	338.1
100°	90.4	181.4	1143.8	1113.9	788.5
102.5°	114.4	196.5	1065.3	1470.4	1212.1
105°	138.9	214.6	971.7	1686.4	1534.2
107.5°	164.1	236.1	888.4	1779.4	1743.2
110°	191.6	258.1	819.7	1779.5	1861.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	217.2	281.4	772.6	1710.4	1883.0
115°	241.3	305.6	741.2	1607.4	1842.5
117.5°	265.8	328.3	718.7	1497.4	1758.2
120°	291.0	351.0	703.5	1393.2	1647.7
122.5°	313.1	373.0	693.1	1310.6	1544.8
125°	333.7	393.8	683.9	1236.8	1449.8
127.5°	350.0	414.2	678.1	1175.8	1367.8
130°	365.2	432.9	672.3	1119.4	1299.4
132.5°	376.4	449.8	668.8	1066.5	1232.9
135°	390.3	465.2	665.5	1012.4	1169.1
137.5°	403.2	478.0	661.2	960.6	1102.3
140°	415.6	489.6	658.3	910.6	1032.3
142.5°	429.6	499.6	654.1	864.1	966.7
145°	444.8	509.0	651.8	822.7	906.8
147.5°	459.4	518.8	648.3	790.2	855.6
150°	474.6	527.0	643.6	762.0	811.3
152.5°	489.7	535.8	637.8	738.6	775.4
155°	504.9	544.6	630.8	717.1	747.4
157.5°	516.5	552.1	625.0	696.1	720.6
160°	530.5	558.6	618.0	676.9	694.9
162.5°	541.0	563.2	611.0	658.8	671.6
165°	551.5	567.2	604.0	640.7	651.8
167.5°	559.7	570.8	597.0	625.0	632.0
170°	566.7	572.5	590.0	611.0	614.5
172.5°	571.3	574.2	584.2	598.8	598.2
175°	574.8	575.4	579.5	587.7	586.5
177.5°	577.2	576.0	576.0	580.7	578.3
180°	576.0	576.0	576.0	576.0	576.0

(END OF REPORT)