

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: P1011461

Luminaire Tested: S123DIP-B340D1025UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011461
REPORT IS A COMBINATION OF REPORTS P989623 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D1025UB27-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

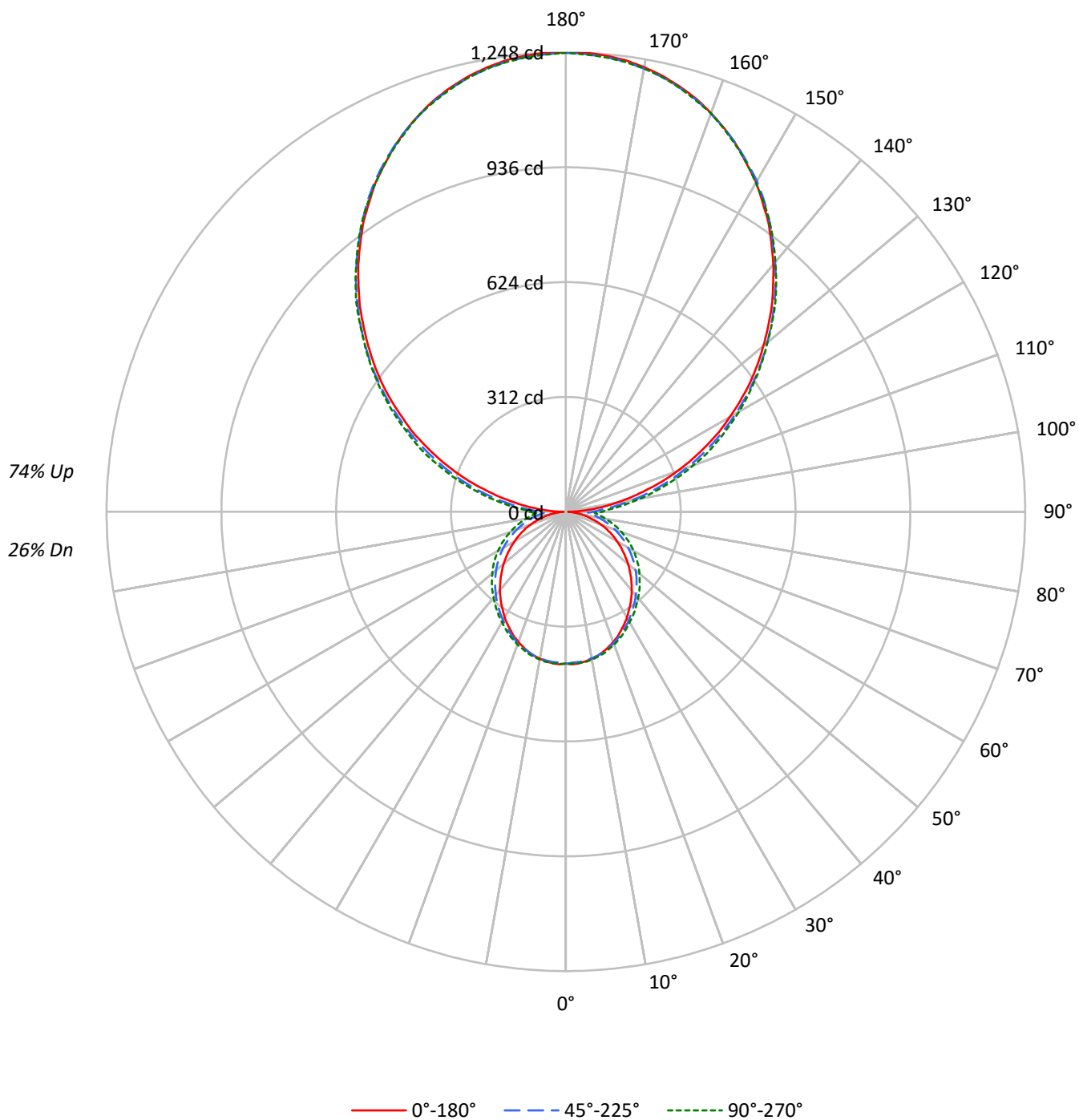
Lumens per Lamp: N/A
Luminaire Lumens: 4844.9 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
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	91	91	91	91	70	70	70	51	51	51	34	34	34
1	92	87	84	80	82	78	75	72	60	58	56	44	43	42	29	29	28
2	83	76	70	65	74	68	63	58	53	49	46	39	36	34	26	24	23
3	76	67	59	54	67	60	53	48	46	42	38	34	31	29	22	21	19
4	69	59	51	45	61	53	46	41	41	36	32	30	27	24	20	18	16
5	63	52	44	38	56	47	40	35	36	31	28	27	23	21	18	16	14
6	58	46	39	33	52	42	35	30	33	28	24	24	21	18	16	14	12
7	54	42	34	29	48	37	31	26	29	24	21	22	18	16	15	13	11
8	50	38	30	25	44	34	27	23	27	22	18	20	16	14	13	11	10
9	46	34	27	22	41	31	24	20	24	20	16	18	15	12	12	10	9
10	43	31	24	20	38	28	22	18	22	18	15	17	13	11	11	9	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4442	4442	4442
5°	4455	4312	4308
10°	4413	4196	4164
15°	4355	4066	4009
20°	4272	3923	3844
25°	4170	3760	3672
30°	4065	3614	3500
35°	3948	3460	3360
40°	3836	3319	3212
45°	3713	3184	3089
50°	3589	3049	2956
55°	3454	2910	2835
60°	3320	2769	2710
65°	3184	2617	2564
70°	2980	2450	2412
75°	2720	2256	2257
80°	2416	2061	2080
85°	2113	1902	1953

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3713 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.2	0.8
10°-20°	111.6	2.3
20°-30°	166.9	3.4
30°-40°	199.3	4.1
40°-50°	208.5	4.3
50°-60°	195.6	4.0
60°-70°	163.4	3.4
70°-80°	116.9	2.4
80°-90°	72.2	1.5
90°-100°	124.0	2.6
100°-110°	275.1	5.7
110°-120°	435.1	9.0
120°-130°	556.4	11.5
130°-140°	617.1	12.7
140°-150°	602.5	12.4
150°-160°	506.3	10.4
160°-170°	337.0	7.0
170°-180°	118.0	2.4
0°-30°	317.7	6.6
0°-40°	516.9	10.7
0°-60°	921.1	19.0
0°-90°	1273.5	26.3
90°-120°	834.1	17.2
90°-150°	2610.1	53.9
90°-180°	3571.0	73.7
0°-180°	4844.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	413	413	413	413	413	
5°	413	412	410	413	413	39
15°	393	395	394	399	398	111
25°	355	360	361	367	367	164
35°	306	313	319	326	327	191
45°	250	261	272	280	284	193
55°	191	206	222	234	237	171
65°	132	149	169	182	187	130
75°	72	93	115	130	135	76
85°	22	44	68	84	88	23
90°	7	39	74	94	100	8
95°	63	87	117	135	139	68
105°	224	237	265	278	284	240
115°	418	427	441	453	456	414
125°	611	614	625	630	630	545
135°	792	797	801	805	805	610
145°	959	961	964	967	964	599
155°	1098	1098	1099	1103	1096	506
165°	1196	1193	1193	1199	1192	337
175°	1244	1240	1240	1246	1239	118
180°	1247	1247	1247	1247	1247	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	412.7	412.7	412.7	412.7	412.7
2.5°	414.9	413.6	410.0	413.6	413.2
5°	413.2	412.3	409.6	413.2	412.7
7.5°	410.0	410.0	407.3	411.8	411.4
10°	405.5	406.4	404.2	408.7	407.8
12.5°	400.1	401.5	400.1	404.2	403.3
15°	393.4	394.7	394.3	398.8	398.3
17.5°	385.3	388.0	387.5	391.6	390.7
20°	376.3	379.0	379.9	383.9	384.4
22.5°	366.8	369.5	370.9	376.3	375.8
25°	355.2	359.7	361.0	366.8	366.8
27.5°	343.9	348.9	351.6	356.5	357.0
30°	331.8	337.6	341.2	346.6	346.6
32.5°	318.3	325.0	330.0	335.8	337.2
35°	305.7	312.9	318.7	325.5	327.3
37.5°	292.2	300.3	307.1	314.7	316.0
40°	278.7	286.8	295.8	303.5	305.3
42.5°	263.9	274.2	283.7	292.2	294.9
45°	250.0	260.7	272.0	280.5	284.1
47.5°	235.1	247.3	259.8	269.3	272.0
50°	220.7	233.3	247.3	257.6	260.7
52.5°	205.5	218.9	234.7	245.5	249.5
55°	190.6	205.5	221.6	233.8	237.4
57.5°	176.2	191.5	209.0	221.2	225.2
60°	160.9	177.1	195.6	208.1	213.1
62.5°	146.6	163.2	183.0	195.6	200.1
65°	131.7	149.3	169.0	182.5	187.0
67.5°	116.9	135.3	155.1	169.9	173.5
70°	101.2	120.5	142.1	156.4	160.9
72.5°	86.8	106.1	128.6	143.4	147.9
75°	71.5	92.6	115.1	129.9	135.3
77.5°	58.4	79.6	102.1	117.8	121.8
80°	44.5	66.5	89.9	105.2	109.7
82.5°	32.4	54.8	78.7	94.0	98.5
85°	22.0	44.5	68.3	83.6	88.1
87.5°	13.5	36.0	58.9	74.2	78.7
90°	6.8	38.7	74.3	93.5	100.0
92.5°	34.8	60.0	88.3	106.1	108.2
95°	62.7	87.2	117.0	134.8	139.3
97.5°	99.5	120.6	147.6	166.0	169.5
100°	137.2	157.5	183.1	199.0	205.5
102.5°	180.9	196.4	223.5	239.0	242.6
105°	224.0	236.8	264.9	277.5	283.5
107.5°	274.5	284.9	307.3	322.4	325.4
110°	321.1	331.1	351.1	366.7	368.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	370.1	377.3	394.4	410.5	414.6
115°	418.5	426.9	441.1	452.9	455.5
117.5°	468.5	473.1	486.4	497.2	497.9
120°	514.1	522.2	532.2	541.5	542.8
122.5°	562.1	567.0	578.9	585.9	586.1
125°	610.6	613.6	624.7	630.2	629.5
127.5°	655.7	661.2	670.4	673.5	672.8
130°	700.7	708.2	714.2	718.8	714.7
132.5°	745.4	753.2	758.0	761.2	759.5
135°	791.5	796.8	800.9	805.0	805.3
137.5°	833.6	838.0	844.1	846.4	845.7
140°	877.2	882.1	884.4	890.2	885.6
142.5°	917.3	921.8	923.8	928.6	926.0
145°	959.4	961.0	963.9	966.6	964.4
147.5°	995.3	999.2	1002.2	1003.5	999.4
150°	1033.5	1035.5	1037.4	1037.4	1032.4
152.5°	1064.8	1067.8	1068.8	1070.7	1065.8
155°	1098.2	1098.2	1099.1	1103.1	1096.2
157.5°	1126.6	1125.6	1126.6	1130.5	1124.6
160°	1153.0	1151.1	1151.1	1156.0	1152.0
162.5°	1176.5	1173.6	1174.6	1179.5	1172.6
165°	1196.1	1193.2	1193.2	1199.1	1192.2
167.5°	1212.8	1208.9	1209.8	1215.7	1209.8
170°	1226.5	1222.6	1222.6	1229.4	1222.6
172.5°	1237.3	1233.3	1233.3	1239.2	1232.4
175°	1244.1	1240.2	1240.2	1246.1	1239.2
177.5°	1248.0	1244.1	1244.1	1250.0	1243.1
180°	1247.1	1247.1	1247.1	1247.1	1247.1

(END OF REPORT)