

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: P1011478

Luminaire Tested: S123DIP-B340D1025UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011478
REPORT IS A COMBINATION OF REPORTS P989655 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D1025UB35-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

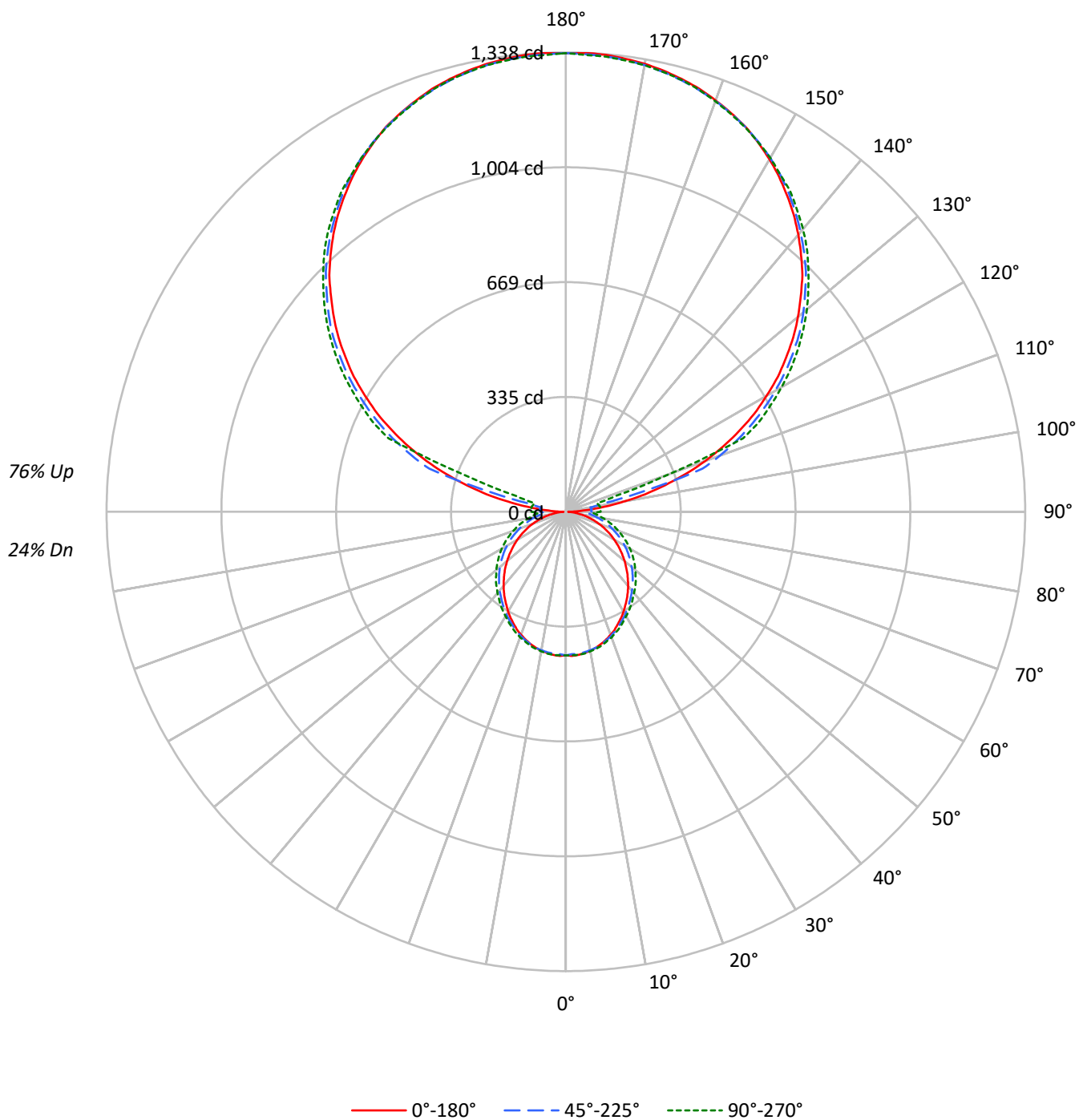
Lumens per Lamp: N/A
Luminaire Lumens: 5480.0 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	90	90	90	90	69	69	69	49	49	49	32	32	32
1	91	87	83	80	81	77	74	71	59	57	55	43	41	40	27	26	26
2	83	76	70	64	73	67	62	58	52	48	45	37	35	33	24	22	21
3	75	66	59	53	67	59	53	48	45	41	38	33	30	28	21	19	18
4	69	58	51	45	61	52	45	40	40	35	32	29	26	23	18	17	15
5	63	52	44	38	56	46	39	34	36	31	27	26	23	20	17	15	13
6	58	46	38	33	51	41	35	30	32	27	23	23	20	17	15	13	12
7	53	41	34	28	47	37	30	26	29	24	20	21	18	15	14	12	10
8	49	37	30	25	44	34	27	23	26	21	18	19	16	13	12	10	9
9	46	34	27	22	41	31	24	20	24	19	16	17	14	12	11	10	8
10	43	31	24	19	38	28	22	18	22	17	14	16	13	11	11	9	7

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	2.1
20°-30°	169.1	3.1
30°-40°	201.9	3.7
40°-50°	211.2	3.9
50°-60°	198.2	3.6
60°-70°	165.5	3.0
70°-80°	118.4	2.2
80°-90°	73.1	1.3
90°-100°	91.4	1.7
100°-110°	260.3	4.7
110°-120°	579.8	10.6
120°-130°	720.9	13.2
130°-140°	762.4	13.9
140°-150°	708.9	12.9
150°-160°	570.9	10.4
160°-170°	368.4	6.7
170°-180°	127.0	2.3
0°-30°	321.8	5.9
0°-40°	523.6	9.6
0°-60°	933.0	17.0
0°-90°	1290.0	23.5
90°-120°	931.5	17.0
90°-150°	3123.7	57.0
90°-180°	4190.0	76.5
0°-180°	5480.0	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°	7	39	75	95	101	8
95°	66	43	76	97	102	76
105°	299	321	252	89	95	317
115°	557	568	594	615	622	550
125°	783	791	808	820	825	700
135°	974	980	989	1000	999	750
145°	1124	1130	1132	1138	1140	704
155°	1238	1236	1237	1242	1236	570
165°	1305	1302	1301	1309	1302	369
175°	1336	1331	1332	1339	1331	127
180°	1336	1336	1336	1336	1336	

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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°	6.9	39.1	75.3	94.7	101.3
92.5°	28.3	41.9	73.6	95.6	100.6
95°	65.5	42.6	75.9	96.9	101.5
97.5°	114.8	103.3	74.2	95.7	101.3
100°	171.8	206.3	72.4	93.5	99.1
102.5°	236.8	262.5	110.3	90.3	96.9
105°	299.3	321.3	251.5	88.6	94.7
107.5°	365.4	384.0	417.5	276.9	151.0
110°	431.4	447.6	476.7	455.8	317.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	494.9	508.3	536.5	556.8	559.0
115°	557.1	568.4	593.8	614.7	622.2
117.5°	618.6	629.1	649.6	668.4	673.1
120°	674.7	685.9	703.9	722.3	725.5
122.5°	732.2	740.1	758.1	773.2	777.4
125°	783.4	791.4	808.5	820.0	825.2
127.5°	835.0	842.5	858.8	870.9	872.1
130°	882.7	890.1	903.2	915.9	916.6
132.5°	927.8	935.8	945.5	957.7	957.9
135°	974.5	980.0	989.0	1000.2	999.4
137.5°	1014.2	1021.7	1026.8	1039.1	1039.4
140°	1053.5	1059.4	1063.7	1074.6	1074.8
142.5°	1090.2	1095.6	1098.6	1107.5	1106.8
145°	1123.9	1130.4	1132.4	1137.9	1139.8
147.5°	1156.2	1161.1	1163.1	1166.5	1163.4
150°	1186.0	1188.9	1190.9	1192.9	1190.8
152.5°	1212.7	1213.7	1214.7	1218.7	1213.7
155°	1237.6	1235.6	1236.6	1241.5	1235.6
157.5°	1257.4	1257.4	1256.4	1262.4	1254.4
160°	1275.3	1274.3	1273.3	1279.2	1272.3
162.5°	1292.1	1289.2	1288.2	1295.1	1289.2
165°	1305.0	1302.1	1301.1	1309.0	1302.1
167.5°	1316.0	1312.0	1312.0	1319.9	1312.0
170°	1324.9	1320.9	1320.9	1328.9	1320.9
172.5°	1330.8	1325.9	1326.9	1334.8	1325.9
175°	1335.8	1330.8	1331.8	1338.8	1330.8
177.5°	1337.8	1332.8	1333.8	1341.8	1331.8
180°	1335.8	1335.8	1335.8	1335.8	1335.8

(END OF REPORT)