

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: P1011479

Luminaire Tested: S123DIP-B340D1025UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011479
REPORT IS A COMBINATION OF REPORTS P989656 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-D1
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

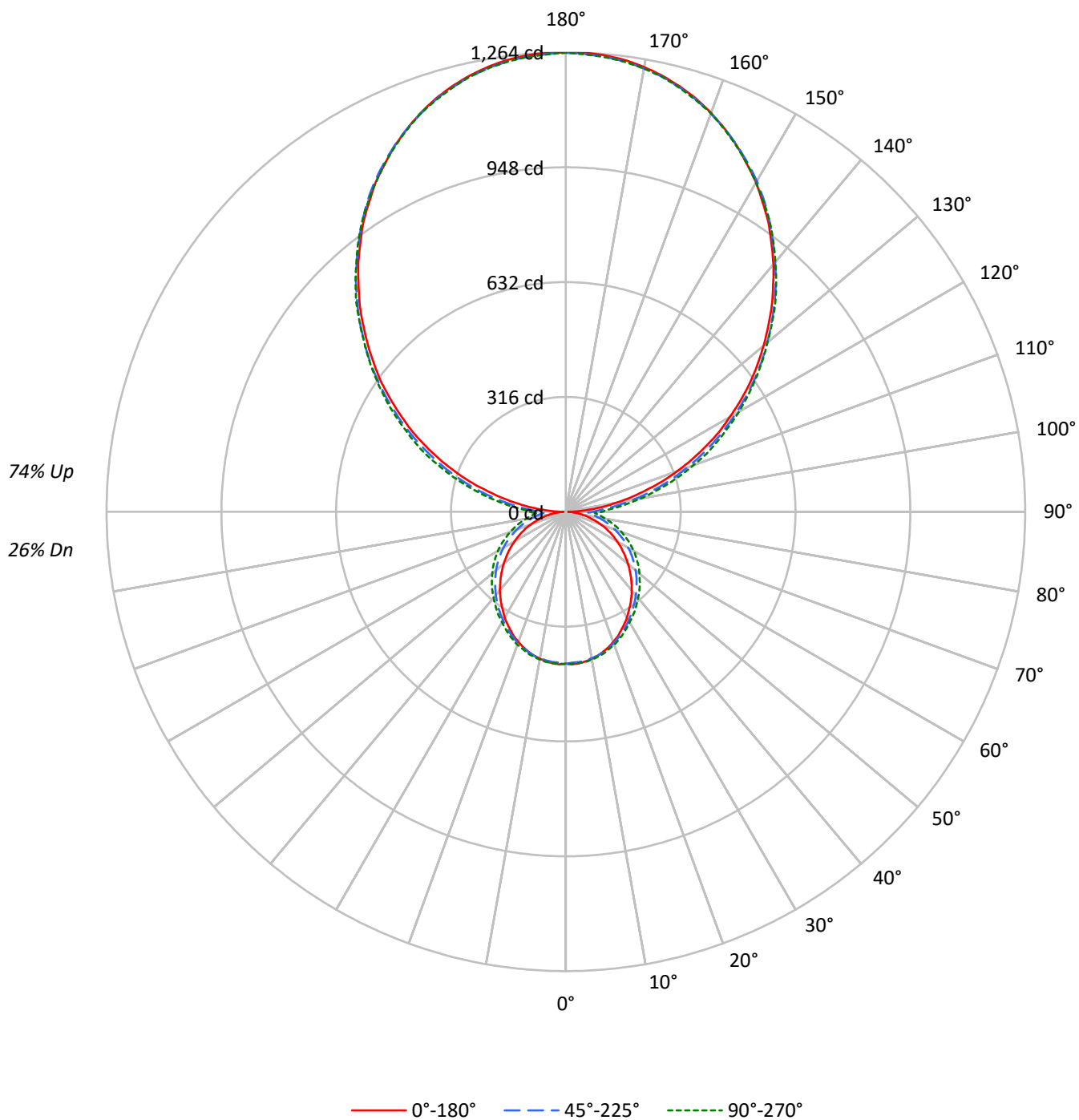
Lumens per Lamp: N/A
Luminaire Lumens: 4908.0 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	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	0.8
10°-20°	113.1	2.3
20°-30°	169.1	3.4
30°-40°	201.9	4.1
40°-50°	211.2	4.3
50°-60°	198.2	4.0
60°-70°	165.5	3.4
70°-80°	118.4	2.4
80°-90°	73.1	1.5
90°-100°	125.6	2.6
100°-110°	278.7	5.7
110°-120°	440.7	9.0
120°-130°	563.6	11.5
130°-140°	625.2	12.7
140°-150°	610.3	12.4
150°-160°	512.9	10.4
160°-170°	341.4	7.0
170°-180°	119.6	2.4
0°-30°	321.8	6.6
0°-40°	523.6	10.7
0°-60°	933.0	19.0
0°-90°	1290.0	26.3
90°-120°	845.0	17.2
90°-150°	2644.1	53.9
90°-180°	3618.0	73.7
0°-180°	4908.0	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	9
95°	64	88	118	137	141	68
105°	227	240	268	281	287	243
115°	424	432	447	459	461	420
125°	619	622	633	638	638	552
135°	802	807	811	816	816	618
145°	972	974	976	979	977	607
155°	1112	1112	1113	1117	1110	512
165°	1212	1209	1209	1215	1208	342
175°	1260	1256	1256	1262	1255	120
180°	1263	1263	1263	1263	1263	

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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°	35.3	60.7	89.5	107.5	109.6
95°	63.5	88.3	118.5	136.6	141.2
97.5°	100.9	122.1	149.6	168.1	171.7
100°	139.1	159.6	185.5	201.7	208.2
102.5°	183.2	199.0	226.4	242.1	245.7
105°	226.9	239.9	268.4	281.1	287.2
107.5°	278.1	288.7	311.2	326.5	329.6
110°	325.2	335.4	355.6	371.5	373.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	374.8	382.2	399.5	415.9	420.0
115°	424.1	432.4	446.8	458.8	461.4
117.5°	474.7	479.3	492.8	503.7	504.4
120°	520.8	529.1	539.1	548.6	549.8
122.5°	569.4	574.3	586.4	593.5	593.8
125°	618.7	621.6	632.8	638.4	637.6
127.5°	664.3	669.8	679.2	682.3	681.5
130°	710.0	717.4	723.5	728.2	724.0
132.5°	755.1	763.0	767.9	771.1	769.3
135°	801.7	807.3	811.3	815.5	815.7
137.5°	844.4	849.0	855.1	857.4	856.7
140°	888.7	893.6	895.9	901.8	897.1
142.5°	929.4	933.8	935.8	940.7	938.0
145°	972.0	973.5	976.5	979.1	977.0
147.5°	1008.2	1012.2	1015.2	1016.6	1012.4
150°	1046.9	1048.9	1050.9	1050.9	1045.9
152.5°	1078.7	1081.7	1082.7	1084.7	1079.7
155°	1112.4	1112.4	1113.4	1117.4	1110.5
157.5°	1141.2	1140.2	1141.2	1145.2	1139.2
160°	1168.0	1166.0	1166.0	1171.0	1167.0
162.5°	1191.8	1188.9	1189.8	1194.8	1187.9
165°	1211.7	1208.7	1208.7	1214.7	1207.7
167.5°	1228.6	1224.6	1225.6	1231.5	1225.6
170°	1242.4	1238.5	1238.5	1245.4	1238.5
172.5°	1253.4	1249.4	1249.4	1255.3	1248.4
175°	1260.3	1256.3	1256.3	1262.3	1255.3
177.5°	1264.3	1260.3	1260.3	1266.3	1259.3
180°	1263.3	1263.3	1263.3	1263.3	1263.3

(END OF REPORT)