

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: P1011691

Luminaire Tested: S123DIP-B560D1025UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011691
REPORT IS A COMBINATION OF REPORTS P989949 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D1025UB30-4F0-XX-W2A-F
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

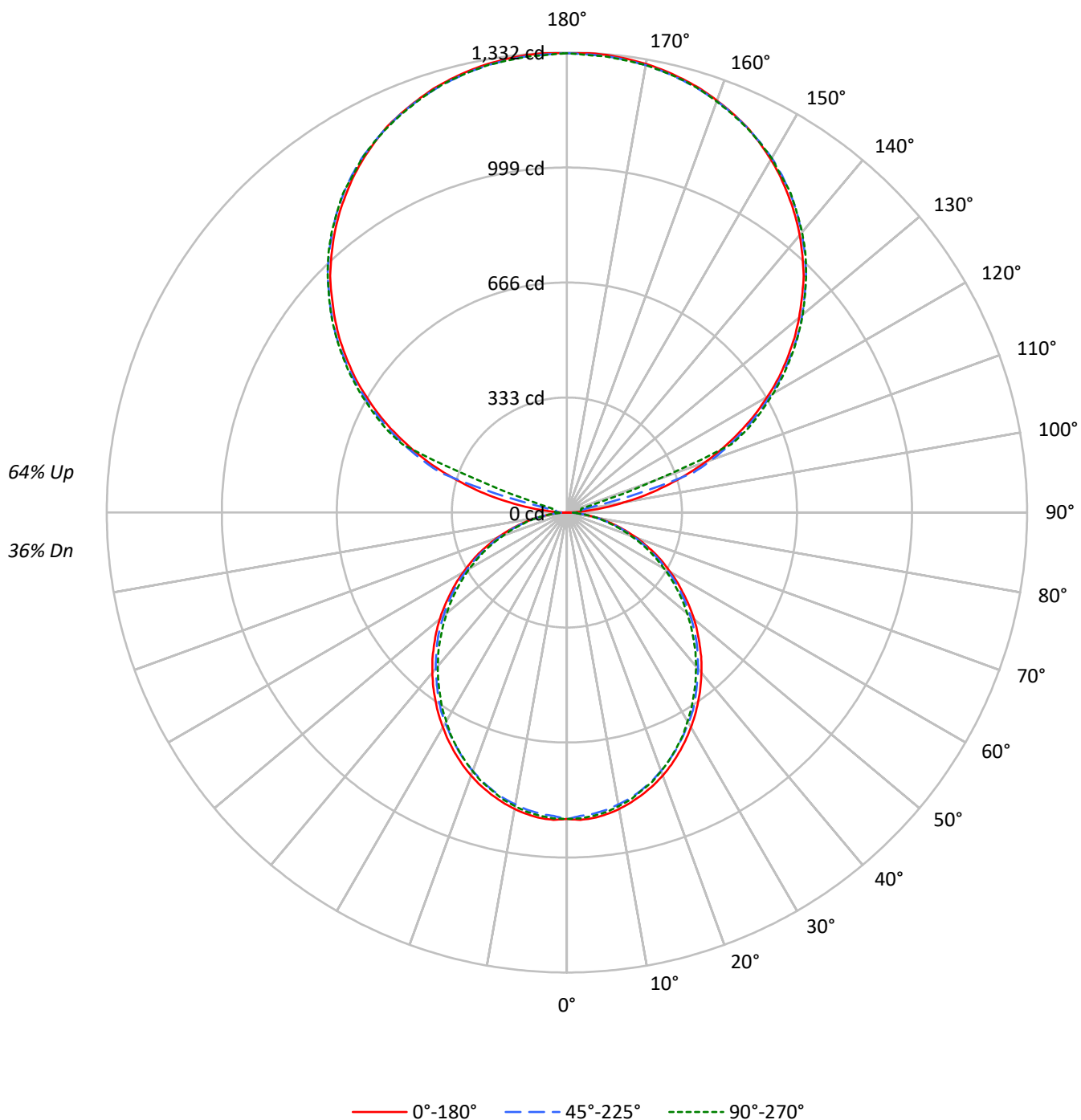
Lumens per Lamp: N/A
Luminaire Lumens: 6366.0 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44
1	95	90	87	83	86	82	79	76	66	64	62	52	50	49	38	37	37
2	86	79	73	68	78	72	67	62	58	54	51	45	43	41	34	32	31
3	79	69	62	56	71	63	57	52	51	47	43	40	37	34	30	28	26
4	72	61	53	48	65	56	49	44	45	40	37	36	32	29	27	24	23
5	66	54	47	41	59	50	43	38	40	35	31	32	28	25	24	22	20
6	61	49	41	35	55	44	38	32	36	31	27	29	25	22	22	19	17
7	56	44	36	31	50	40	33	28	33	28	24	26	22	20	20	17	15
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	16	14
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9550	9550	9550
5°	9574	9221	9207
10°	9488	8908	8817
15°	9356	8584	8392
20°	9205	8223	7971
25°	9009	7843	7521
30°	8795	7450	7048
35°	8571	7048	6578
40°	8336	6626	6115
45°	8078	6214	5632
50°	7815	5757	5147
55°	7478	5279	4656
60°	7131	4753	4133
65°	6805	4183	3588
70°	6334	3551	2951
75°	5660	2811	2291
80°	4886	1976	1620
85°	3813	1061	811

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8078 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.6	1.3
10°-20°	236.2	3.7
20°-30°	348.8	5.5
30°-40°	407.4	6.4
40°-50°	409.5	6.4
50°-60°	359.8	5.7
60°-70°	267.9	4.2
70°-80°	152.5	2.4
80°-90°	46.0	0.7
90°-100°	46.9	0.7
100°-110°	226.7	3.6
110°-120°	555.6	8.7
120°-130°	705.4	11.1
130°-140°	753.5	11.8
140°-150°	704.6	11.1
150°-160°	568.4	8.9
160°-170°	366.8	5.8
170°-180°	126.4	2.0
0°-30°	668.6	10.5
0°-40°	1076.0	16.9
0°-60°	1845.2	29.0
0°-90°	2311.6	36.3
90°-120°	829.3	13.0
90°-150°	2992.8	47.0
90°-180°	4054.0	63.7
0°-180°	6366.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	887	887	887	887	887	
5°	888	884	876	883	882	84
15°	845	842	832	838	834	238
25°	767	763	753	754	751	354
35°	664	659	649	645	641	415
45°	544	541	531	522	518	420
55°	413	412	402	394	390	370
65°	282	278	270	264	262	278
75°	149	146	143	140	137	159
85°	40	38	38	37	37	43
90°	1	11	24	28	30	6
95°	60	20	31	38	38	72
105°	294	305	216	42	44	312
115°	552	558	567	577	581	545
125°	779	786	790	792	794	696
135°	969	975	979	982	979	746
145°	1118	1125	1127	1129	1129	700
155°	1232	1230	1231	1236	1230	568
165°	1299	1296	1295	1303	1296	367
175°	1330	1325	1326	1333	1325	127
180°	1330	1330	1330	1330	1330	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	887.2	887.2	887.2	887.2	887.2
2.5°	891.0	888.0	879.6	887.2	886.4
5°	888.0	884.2	875.8	883.4	881.9
7.5°	881.1	877.3	868.9	875.8	875.0
10°	871.9	868.1	858.2	865.1	863.6
12.5°	859.7	856.7	847.5	852.1	851.4
15°	845.2	842.2	832.3	838.4	833.8
17.5°	829.2	825.4	815.5	820.1	818.5
20°	810.9	806.3	796.4	799.5	797.2
22.5°	790.3	785.7	775.8	778.1	775.1
25°	767.4	762.9	752.9	753.7	751.4
27.5°	743.8	739.2	728.5	729.3	727.0
30°	717.8	714.0	703.4	703.4	698.0
32.5°	691.9	686.6	678.9	673.6	671.3
35°	663.7	659.1	649.2	644.6	640.8
37.5°	635.5	629.4	619.4	614.1	611.8
40°	605.7	601.1	590.5	584.3	581.3
42.5°	576.0	570.6	559.9	553.8	550.8
45°	543.9	540.9	530.9	521.8	518.0
47.5°	512.6	508.1	498.9	489.8	486.7
50°	480.6	476.8	466.9	458.5	453.9
52.5°	447.0	444.7	434.1	427.2	422.6
55°	412.7	411.9	402.0	393.6	389.8
57.5°	380.7	377.6	370.0	362.4	357.8
60°	345.6	344.8	335.7	328.8	325.0
62.5°	314.3	312.0	302.9	296.0	293.7
65°	281.5	277.7	270.1	263.9	261.7
67.5°	246.4	243.4	237.2	231.9	228.9
70°	215.1	210.5	206.0	200.6	196.8
72.5°	182.3	179.3	173.9	169.4	167.8
75°	148.8	145.7	143.4	139.6	137.3
77.5°	119.0	117.5	114.4	111.4	111.4
80°	90.0	87.7	86.2	85.4	85.4
82.5°	61.8	61.8	61.8	60.3	59.5
85°	39.7	38.1	38.1	36.6	36.6
87.5°	19.8	17.5	16.8	16.0	16.0
90°	1.0	10.9	23.7	27.7	29.6
92.5°	22.7	16.8	25.7	32.6	33.6
95°	60.3	19.8	30.6	37.5	37.5
97.5°	109.7	82.0	31.6	39.5	40.5
100°	167.0	186.7	32.6	40.5	41.5
102.5°	232.2	245.0	73.1	40.5	42.5
105°	294.4	305.3	216.4	41.5	43.5
107.5°	360.6	369.5	384.3	232.2	102.8
110°	426.8	434.7	445.6	413.0	271.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	490.1	497.0	507.9	516.7	514.8
115°	552.3	558.2	567.1	577.0	581.0
117.5°	613.6	620.5	625.4	633.3	634.3
120°	669.9	678.8	681.8	689.7	689.7
122.5°	727.2	734.1	738.1	743.0	744.0
125°	778.6	786.5	790.4	792.4	794.4
127.5°	830.0	837.9	842.8	845.8	843.8
130°	877.4	885.3	889.2	893.2	891.2
132.5°	922.8	930.7	933.7	937.7	934.7
135°	969.3	975.2	979.2	982.1	979.2
137.5°	1008.8	1016.7	1018.7	1023.6	1021.6
140°	1048.3	1054.2	1057.2	1061.2	1059.2
142.5°	1084.9	1090.8	1093.8	1096.7	1093.8
145°	1118.5	1125.4	1127.4	1129.3	1129.3
147.5°	1151.1	1156.0	1158.0	1160.0	1155.0
150°	1180.7	1183.7	1185.7	1187.6	1184.7
152.5°	1207.4	1208.4	1209.4	1213.3	1208.4
155°	1232.1	1230.1	1231.1	1236.0	1230.1
157.5°	1251.9	1251.9	1250.9	1256.8	1248.9
160°	1269.6	1268.7	1267.7	1273.6	1266.7
162.5°	1286.4	1283.5	1282.5	1289.4	1283.5
165°	1299.3	1296.3	1295.3	1303.2	1296.3
167.5°	1310.1	1306.2	1306.2	1314.1	1306.2
170°	1319.0	1315.1	1315.1	1323.0	1315.1
172.5°	1325.0	1320.0	1321.0	1328.9	1320.0
175°	1329.9	1325.0	1326.0	1332.9	1325.0
177.5°	1331.9	1326.9	1327.9	1335.8	1326.0
180°	1329.9	1329.9	1329.9	1329.9	1329.9

(END OF REPORT)