

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: P1011059

Luminaire Tested: S123DIP-B1000D1025UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011059
REPORT IS A COMBINATION OF REPORTS P989074 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D1025UB50-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

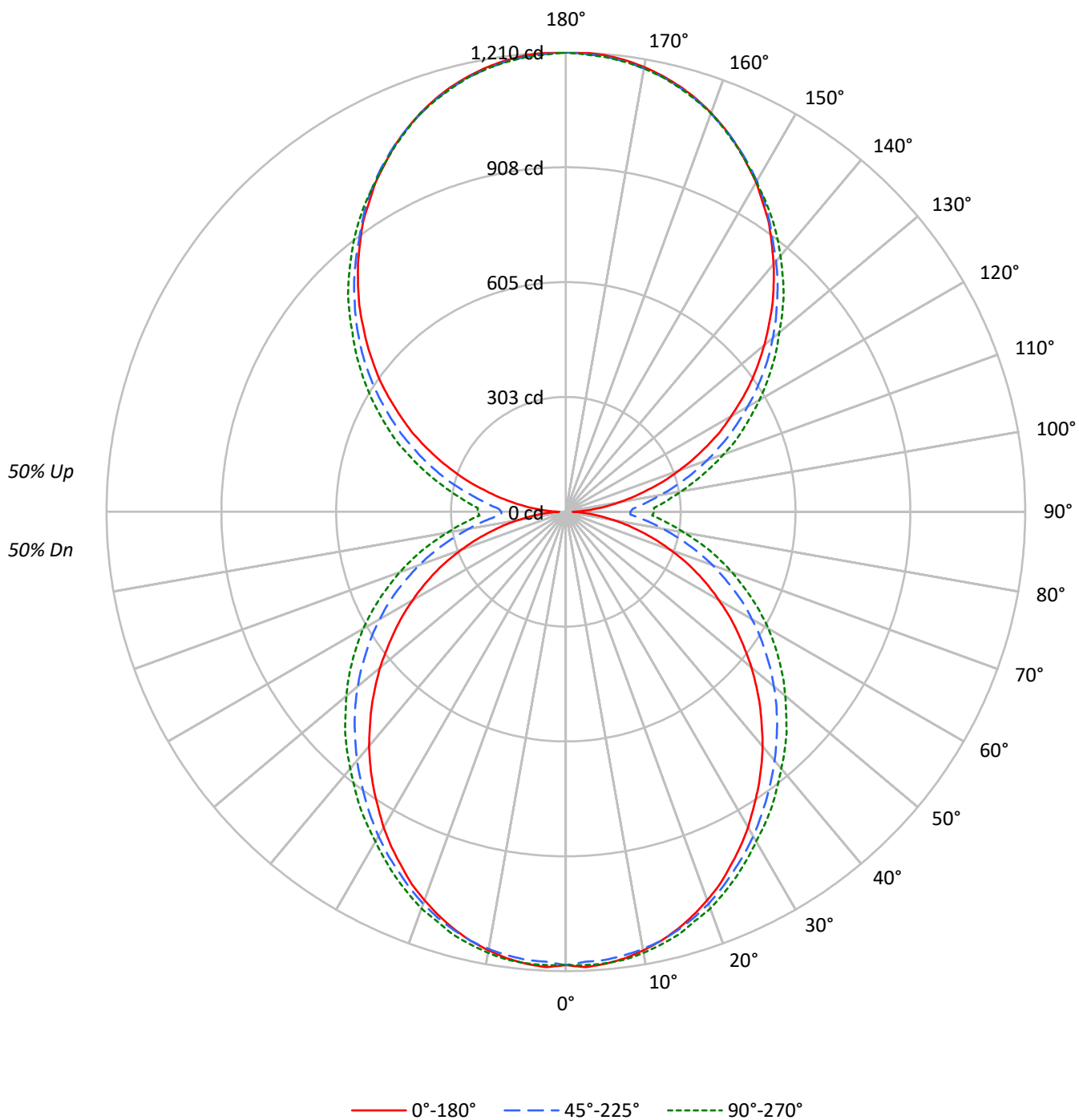
Lumens per Lamp: N/A
Luminaire Lumens: 7367.0 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 75.3
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56
1	97	92	88	84	89	85	81	78	71	69	66	59	57	55	48	47	45
2	88	80	73	68	80	74	68	63	62	58	54	51	48	45	42	39	37
3	80	70	62	56	73	64	58	52	54	49	45	45	41	38	36	34	31
4	73	61	53	47	67	57	50	44	48	42	38	40	36	32	32	29	27
5	67	55	46	40	61	51	43	37	43	37	33	36	31	28	29	26	23
6	61	49	41	35	56	45	38	32	39	33	28	32	28	24	26	23	20
7	57	44	36	30	52	41	34	28	35	29	25	29	25	21	24	21	18
8	53	40	32	27	48	37	30	25	32	26	22	27	22	19	22	19	16
9	49	36	29	24	45	34	27	22	29	24	20	25	20	17	20	17	14
10	46	33	26	21	42	31	24	20	27	21	18	23	18	15	19	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12853	12853	12853
5°	12888	12476	12466
10°	12768	12138	12046
15°	12598	11764	11599
20°	12358	11349	11120
25°	12064	10880	10624
30°	11761	10457	10127
35°	11423	10011	9720
40°	11100	9605	9292
45°	10740	9211	8939
50°	10386	8821	8555
55°	9993	8421	8203
60°	9609	8011	7840
65°	9213	7575	7418
70°	8620	7085	6983
75°	7867	6528	6532
80°	6993	5962	6019
85°	6119	5505	5650

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10740 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.3	1.5
10°-20°	322.9	4.4
20°-30°	482.9	6.6
30°-40°	576.5	7.8
40°-50°	603.2	8.2
50°-60°	566.1	7.7
60°-70°	472.8	6.4
70°-80°	338.1	4.6
80°-90°	203.7	2.8
90°-100°	204.3	2.8
100°-110°	328.6	4.5
110°-120°	463.2	6.3
120°-130°	563.2	7.6
130°-140°	609.1	8.3
140°-150°	586.6	8.0
150°-160°	491.1	6.7
160°-170°	326.9	4.4
170°-180°	114.5	1.6
0°-30°	919.1	12.5
0°-40°	1495.6	20.3
0°-60°	2664.9	36.2
0°-90°	3679.6	49.9
90°-120°	996.1	13.5
90°-150°	2755.0	37.4
90°-180°	3687.0	50.0
0°-180°	7367.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1194	1194	1194	1194	1194	
5°	1195	1193	1185	1195	1194	113
15°	1138	1142	1141	1154	1152	321
25°	1028	1041	1044	1061	1061	474
35°	884	905	922	942	947	553
45°	723	754	787	812	822	558
55°	552	594	641	676	687	494
65°	381	432	489	528	541	377
75°	207	268	333	376	392	221
85°	64	129	198	242	255	66
90°	18	91	170	218	233	16
95°	70	128	199	243	256	73
105°	224	257	322	358	372	239
115°	410	429	474	506	515	406
125°	595	598	634	657	662	531
135°	769	774	787	807	811	593
145°	932	932	935	944	946	582
155°	1065	1065	1066	1070	1063	490
165°	1160	1157	1157	1163	1156	327
175°	1207	1203	1203	1209	1202	115
180°	1210	1210	1210	1210	1210	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1194.1	1194.1	1194.1	1194.1	1194.1
2.5°	1200.6	1196.7	1186.3	1196.7	1195.4
5°	1195.4	1192.8	1185.0	1195.4	1194.1
7.5°	1186.3	1186.3	1178.5	1191.5	1190.2
10°	1173.3	1175.9	1169.4	1182.4	1179.8
12.5°	1157.6	1161.5	1157.6	1169.4	1166.8
15°	1138.1	1142.0	1140.7	1153.7	1152.4
17.5°	1114.7	1122.5	1121.2	1132.9	1130.3
20°	1088.7	1096.5	1099.1	1110.8	1112.1
22.5°	1061.4	1069.2	1073.1	1088.7	1087.4
25°	1027.6	1040.6	1044.5	1061.4	1061.4
27.5°	995.1	1009.4	1017.2	1031.5	1032.8
30°	959.9	976.8	987.3	1002.9	1002.9
32.5°	920.9	940.4	954.7	971.6	975.5
35°	884.5	905.3	922.2	941.7	946.9
37.5°	845.5	868.9	888.4	910.5	914.4
40°	806.5	829.9	855.9	878.0	883.2
42.5°	763.5	793.4	820.8	845.5	853.3
45°	723.2	754.4	786.9	811.7	822.1
47.5°	680.3	715.4	751.8	779.1	786.9
50°	638.7	675.1	715.4	745.3	754.4
52.5°	594.4	633.5	679.0	710.2	721.9
55°	551.5	594.4	641.3	676.4	686.8
57.5°	509.9	554.1	604.8	640.0	651.7
60°	465.7	512.5	565.8	602.2	616.5
62.5°	424.0	472.2	529.4	565.8	578.8
65°	381.1	431.8	489.1	528.1	541.1
67.5°	338.2	391.5	448.8	491.7	502.1
70°	292.7	348.6	411.0	452.7	465.7
72.5°	251.0	307.0	372.0	414.9	427.9
75°	206.8	267.9	333.0	375.9	391.5
77.5°	169.1	230.2	295.3	340.8	352.5
80°	128.8	192.5	260.1	304.4	317.4
82.5°	93.7	158.7	227.6	271.9	284.9
85°	63.7	128.8	197.7	241.9	254.9
87.5°	39.0	104.1	170.4	214.6	227.6
90°	17.9	91.1	169.8	217.8	232.7
92.5°	44.1	105.7	176.5	222.3	232.1
95°	70.4	127.7	199.1	243.2	256.2
97.5°	105.2	156.7	223.6	267.4	279.4
100°	140.9	188.2	252.9	293.4	308.3
102.5°	182.4	221.6	286.9	326.1	338.2
105°	224.2	257.3	321.8	358.2	371.8
107.5°	272.3	300.5	357.7	395.7	406.4
110°	316.6	341.9	395.8	433.5	442.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	364.1	383.3	432.7	470.0	481.7
115°	410.3	428.8	473.7	505.9	515.4
117.5°	458.8	470.1	512.4	543.7	551.3
120°	502.1	514.3	552.5	581.4	588.7
122.5°	548.7	555.1	593.5	619.2	625.5
125°	594.9	597.7	633.5	657.0	662.3
127.5°	638.6	643.0	673.6	693.9	699.2
130°	682.3	688.6	711.8	732.7	733.8
132.5°	724.7	732.3	749.9	768.6	772.9
135°	769.4	773.8	787.1	806.7	811.3
137.5°	810.2	813.7	825.6	841.7	845.3
140°	851.7	856.4	861.3	879.8	879.7
142.5°	890.6	894.1	896.0	911.9	913.7
145°	931.5	932.1	935.0	944.4	945.8
147.5°	965.4	969.2	972.0	975.9	975.4
150°	1002.4	1004.3	1006.2	1006.2	1003.1
152.5°	1032.8	1035.7	1036.6	1038.5	1033.8
155°	1065.1	1065.1	1066.1	1069.9	1063.2
157.5°	1092.7	1091.7	1092.7	1096.5	1090.8
160°	1118.3	1116.4	1116.4	1121.2	1117.4
162.5°	1141.1	1138.3	1139.2	1144.0	1137.3
165°	1160.1	1157.3	1157.3	1163.0	1156.3
167.5°	1176.3	1172.5	1173.4	1179.1	1173.4
170°	1189.6	1185.8	1185.8	1192.4	1185.8
172.5°	1200.0	1196.2	1196.2	1201.9	1195.3
175°	1206.7	1202.9	1202.9	1208.6	1201.9
177.5°	1210.5	1206.7	1206.7	1212.4	1205.7
180°	1209.5	1209.5	1209.5	1209.5	1209.5

(END OF REPORT)