

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: P1011710

Luminaire Tested: S123DIP-B560D1025UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011710
REPORT IS A COMBINATION OF REPORTS P989968 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D1025UB40-4F0-XX-W2A-F1
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

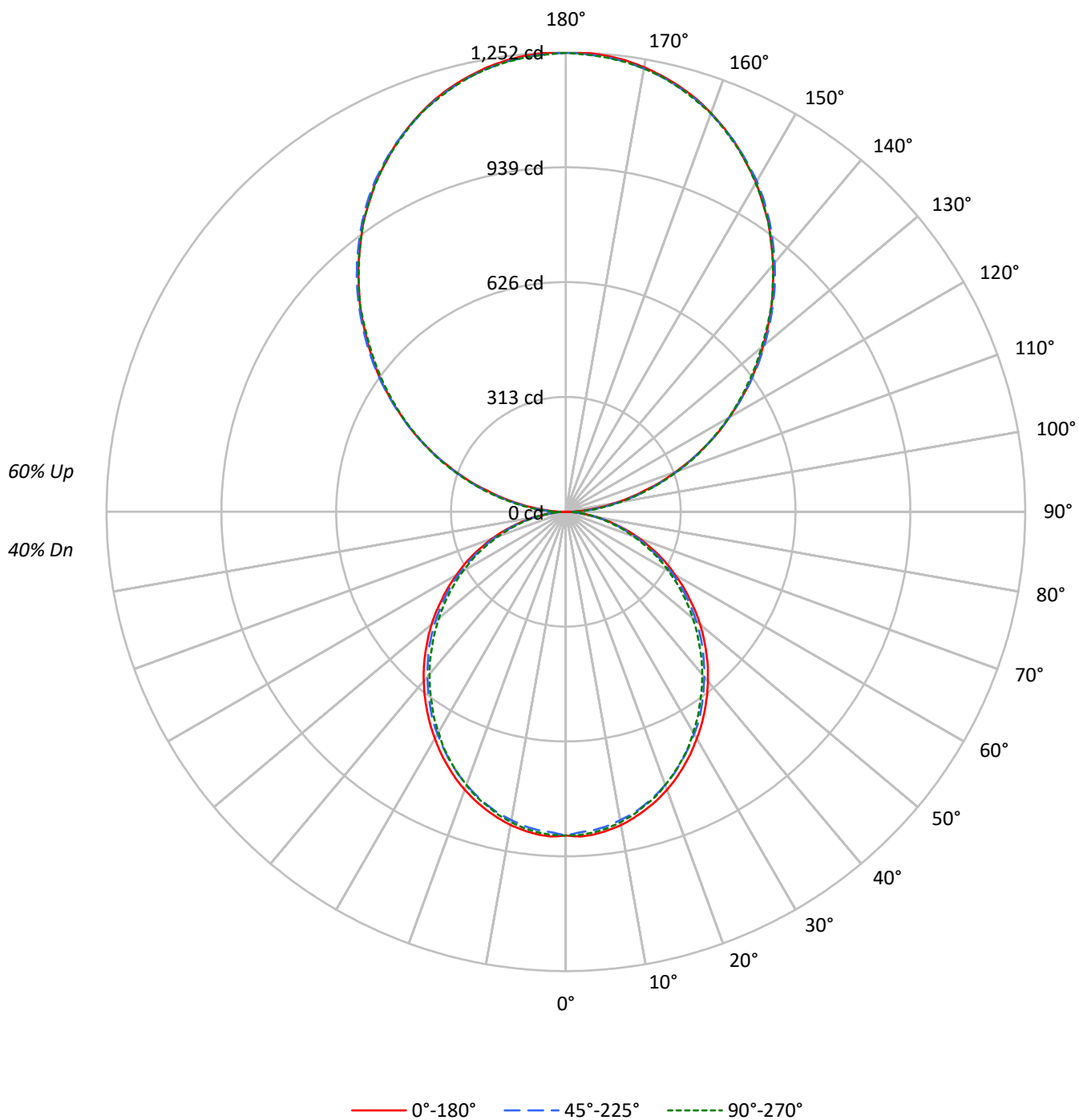
Lumens per Lamp: N/A
Luminaire Lumens: 5765.0 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
Input Voltage (V):
Input Current (A_{in}): 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	50	30	10
RCR																				
0	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	47	47	47
1	95	91	87	84	87	83	80	77	68	66	64	54	53	51	41	40	39	39	39	33
2	87	80	74	68	79	73	67	63	60	56	53	47	45	43	36	35	33	33	33	28
3	79	70	63	57	72	64	58	53	52	48	44	42	39	36	32	30	28	28	28	24
4	72	62	54	48	66	57	50	44	47	42	38	37	34	31	29	26	24	24	24	20
5	66	55	47	41	60	50	43	38	42	36	32	33	30	27	26	23	21	21	21	18
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	21	19	19	19	15
7	56	44	37	31	51	41	34	29	34	29	25	27	23	21	21	19	16	16	16	14
8	52	40	33	27	48	37	30	26	31	26	22	25	21	18	20	17	15	15	15	12
9	49	37	29	24	44	34	27	23	28	23	20	23	19	16	18	15	13	13	13	11
10	45	34	26	22	41	31	25	20	26	21	18	21	17	15	17	14	12	12	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9496	9496	9496
5°	9520	9168	9155
10°	9435	8858	8767
15°	9304	8535	8345
20°	9154	8177	7926
25°	8959	7799	7479
30°	8746	7408	7008
35°	8523	7008	6541
40°	8289	6588	6081
45°	8033	6180	5601
50°	7771	5723	5118
55°	7436	5250	4629
60°	7090	4726	4109
65°	6766	4159	3567
70°	6299	3530	2934
75°	5626	2795	2277
80°	4859	1964	1612
85°	3785	1055	807

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8033 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	1.4
10°-20°	234.8	4.1
20°-30°	346.8	6.0
30°-40°	405.1	7.0
40°-50°	407.2	7.1
50°-60°	357.7	6.2
60°-70°	266.4	4.6
70°-80°	151.6	2.6
80°-90°	45.7	0.8
90°-100°	80.5	1.4
100°-110°	243.7	4.2
110°-120°	415.0	7.2
120°-130°	545.9	9.5
130°-140°	613.6	10.6
140°-150°	603.2	10.5
150°-160°	507.9	8.8
160°-170°	338.1	5.9
170°-180°	118.4	2.1
0°-30°	664.8	11.5
0°-40°	1069.9	18.6
0°-60°	1834.9	31.8
0°-90°	2298.6	39.9
90°-120°	739.2	12.8
90°-150°	2502.0	43.4
90°-180°	3466.0	60.1
0°-180°	5765.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	882	882	882	882	882	
5°	883	879	871	878	877	84
15°	840	838	828	834	829	237
25°	763	759	749	750	747	352
35°	660	655	646	641	637	413
45°	541	538	528	519	515	418
55°	410	410	400	391	388	368
65°	280	276	268	262	260	276
75°	148	145	143	139	136	158
85°	39	38	38	36	36	42
90°	1	11	24	28	30	7
95°	58	65	73	77	77	64
105°	221	223	232	232	234	237
115°	418	421	419	420	419	413
125°	611	614	612	608	604	545
135°	793	799	798	794	792	611
145°	962	964	967	966	962	601
155°	1102	1102	1103	1107	1100	507
165°	1200	1197	1197	1203	1196	338
175°	1248	1244	1244	1250	1243	119
180°	1251	1251	1251	1251	1251	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	882.2	882.2	882.2	882.2	882.2
2.5°	886.0	883.0	874.6	882.2	881.5
5°	883.0	879.2	870.8	878.4	876.9
7.5°	876.1	872.3	864.0	870.8	870.1
10°	867.0	863.2	853.4	860.2	858.7
12.5°	854.9	851.9	842.8	847.3	846.6
15°	840.5	837.5	827.6	833.7	829.1
17.5°	824.6	820.8	810.9	815.5	813.9
20°	806.4	801.8	791.9	795.0	792.7
22.5°	785.9	781.3	771.5	773.7	770.7
25°	763.1	758.6	748.7	749.5	747.2
27.5°	739.6	735.0	724.4	725.2	722.9
30°	713.8	710.0	699.4	699.4	694.1
32.5°	688.0	682.7	675.1	669.8	667.5
35°	660.0	655.4	645.5	641.0	637.2
37.5°	631.9	625.8	616.0	610.6	608.4
40°	602.3	597.7	587.1	581.1	578.0
42.5°	572.7	567.4	556.8	550.7	547.7
45°	540.9	537.8	528.0	518.9	515.1
47.5°	509.8	505.2	496.1	487.0	484.0
50°	477.9	474.1	464.2	455.9	451.3
52.5°	444.5	442.2	431.6	424.8	420.2
55°	410.4	409.6	399.8	391.4	387.6
57.5°	378.5	375.5	367.9	360.3	355.8
60°	343.6	342.9	333.8	326.9	323.1
62.5°	312.5	310.3	301.1	294.3	292.0
65°	279.9	276.1	268.5	262.5	260.2
67.5°	245.0	242.0	235.9	230.6	227.6
70°	213.9	209.4	204.8	199.5	195.7
72.5°	181.3	178.3	173.0	168.4	166.9
75°	147.9	144.9	142.6	138.8	136.5
77.5°	118.3	116.8	113.8	110.8	110.8
80°	89.5	87.2	85.7	85.0	85.0
82.5°	61.4	61.4	61.4	59.9	59.2
85°	39.4	37.9	37.9	36.4	36.4
87.5°	19.7	17.4	16.7	15.9	15.9
90°	1.0	10.8	23.6	27.5	29.5
92.5°	29.5	35.4	41.3	44.2	42.3
95°	58.0	64.9	72.7	76.7	76.7
97.5°	95.3	100.2	106.1	111.0	110.1
100°	133.7	139.5	144.5	147.4	149.4
102.5°	177.9	180.8	187.7	190.7	189.7
105°	221.1	223.1	231.9	231.9	233.9
107.5°	272.2	273.2	277.1	280.1	279.1
110°	319.4	321.4	323.3	327.3	325.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	368.5	369.5	369.5	374.4	374.4
115°	417.7	420.6	418.6	419.6	418.6
117.5°	467.8	468.8	466.8	466.8	463.9
120°	514.0	519.9	515.0	514.0	512.0
122.5°	562.1	566.1	564.1	561.1	558.2
125°	611.3	614.2	612.2	608.3	604.4
127.5°	656.5	662.4	660.4	654.5	650.6
130°	701.7	709.5	706.6	702.7	695.8
132.5°	746.9	754.7	752.8	747.9	742.9
135°	793.1	799.0	798.0	794.1	792.1
137.5°	835.3	840.2	843.2	838.3	835.3
140°	879.5	884.5	885.4	884.5	877.6
142.5°	919.8	924.8	926.7	925.7	920.8
145°	962.1	964.1	967.0	966.0	962.1
147.5°	998.5	1002.4	1005.3	1005.3	999.4
150°	1036.8	1038.8	1040.7	1040.7	1034.8
152.5°	1068.2	1071.2	1072.2	1074.1	1069.2
155°	1101.6	1101.6	1102.6	1106.6	1099.7
157.5°	1130.1	1129.2	1130.1	1134.1	1128.2
160°	1156.7	1154.7	1154.7	1159.6	1155.7
162.5°	1180.3	1177.3	1178.3	1183.2	1176.3
165°	1199.9	1197.0	1197.0	1202.9	1196.0
167.5°	1216.6	1212.7	1213.7	1219.6	1213.7
170°	1230.4	1226.5	1226.5	1233.3	1226.5
172.5°	1241.2	1237.3	1237.3	1243.2	1236.3
175°	1248.1	1244.1	1244.1	1250.0	1243.2
177.5°	1252.0	1248.1	1248.1	1254.0	1247.1
180°	1251.0	1251.0	1251.0	1251.0	1251.0

(END OF REPORT)