

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: P1011181

Luminaire Tested: S123DIP-B1000D585UB40-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011181
REPORT IS A COMBINATION OF REPORTS P989244 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D585UB40-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

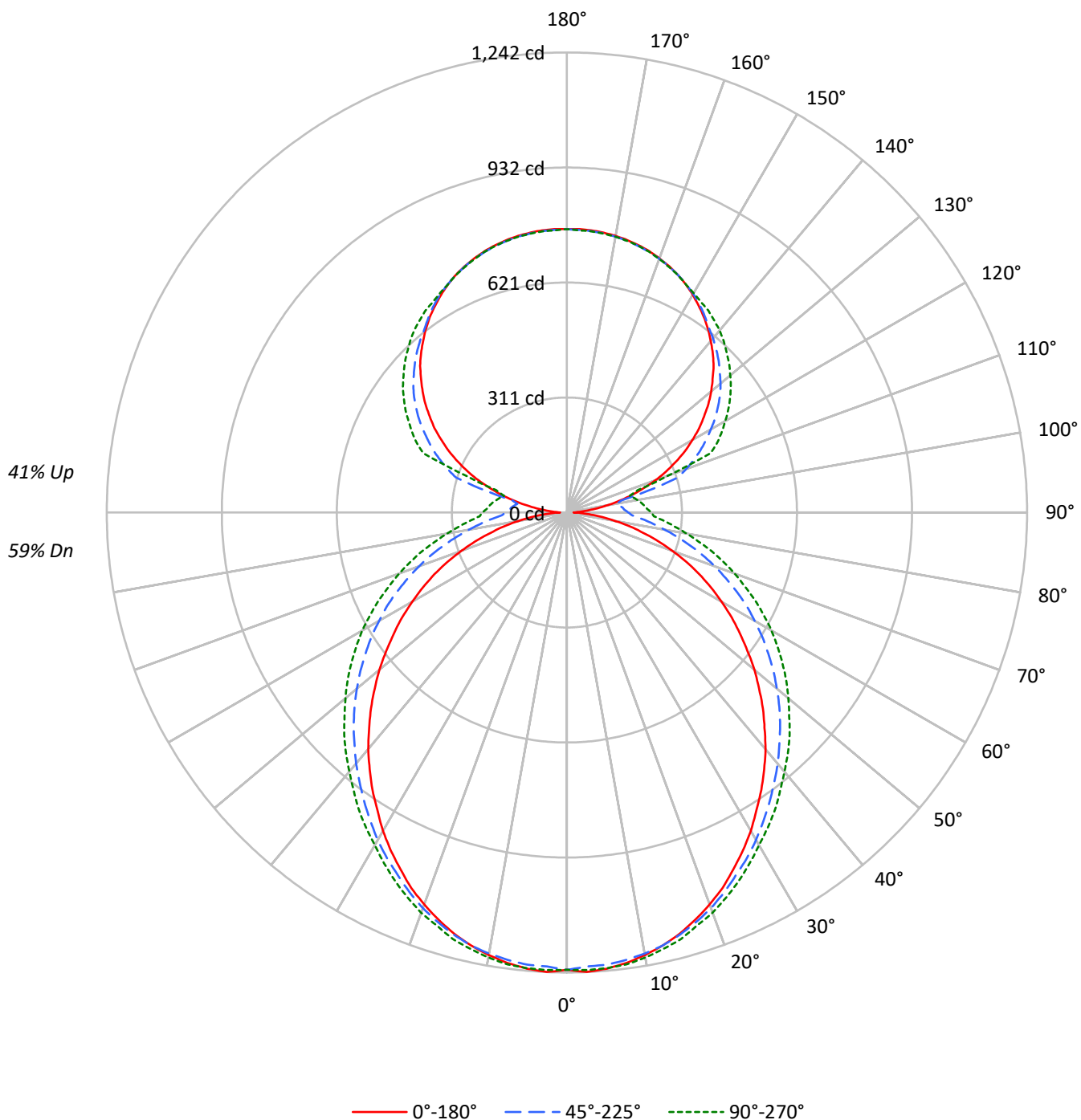
Lumens per Lamp: N/A
Luminaire Lumens: 6483.0 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 62.2
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64
1	98	94	89	85	92	87	83	80	75	73	70	65	63	61	55	53	52
2	89	81	74	69	83	76	70	65	65	61	57	56	53	50	47	45	43
3	81	71	63	57	75	66	59	53	57	52	47	49	45	41	42	38	36
4	74	62	54	48	69	58	51	45	51	45	40	44	39	35	37	33	30
5	68	56	47	41	63	52	44	39	45	39	34	39	34	30	33	29	26
6	62	50	41	35	58	47	39	33	41	35	30	35	30	26	30	26	23
7	58	45	37	31	54	42	35	29	37	31	26	32	27	23	27	23	20
8	54	41	33	27	50	38	31	26	34	28	23	29	24	21	25	21	18
9	50	37	29	24	46	35	28	23	31	25	21	27	22	19	23	19	16
10	47	34	27	22	43	32	25	21	28	23	19	25	20	17	22	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13291	13291	13291
5°	13328	12901	12891
10°	13203	12552	12456
15°	13029	12166	11995
20°	12781	11736	11500
25°	12476	11251	10987
30°	12163	10814	10472
35°	11813	10353	10053
40°	11478	9932	9608
45°	11107	9525	9243
50°	10741	9122	8847
55°	10333	8708	8482
60°	9937	8284	8108
65°	9527	7834	7672
70°	8914	7328	7221
75°	8137	6751	6755
80°	7231	6166	6224
85°	6330	5695	5843

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11107 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	1.8
10°-20°	333.9	5.2
20°-30°	499.4	7.7
30°-40°	596.2	9.2
40°-50°	623.8	9.6
50°-60°	585.4	9.0
60°-70°	489.0	7.5
70°-80°	349.6	5.4
80°-90°	209.6	3.2
90°-100°	157.7	2.4
100°-110°	226.5	3.5
110°-120°	383.7	5.9
120°-130°	442.2	6.8
130°-140°	449.7	6.9
140°-150°	408.6	6.3
150°-160°	326.9	5.0
160°-170°	210.9	3.3
170°-180°	72.7	1.1
0°-30°	950.4	14.7
0°-40°	1546.6	23.9
0°-60°	2755.9	42.5
0°-90°	3804.1	58.7
90°-120°	767.9	11.8
90°-150°	2068.5	31.9
90°-180°	2679.0	41.3
0°-180°	6483.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1235	1235	1235	1235	1235	
5°	1236	1234	1225	1236	1235	117
15°	1177	1181	1180	1193	1192	332
25°	1063	1076	1080	1098	1098	490
35°	915	936	954	974	979	572
45°	748	780	814	839	850	577
55°	570	615	663	700	710	511
65°	394	447	506	546	560	390
75°	214	277	344	389	405	228
85°	66	133	204	250	264	68
90°	18	90	166	214	228	14
95°	50	79	151	196	210	53
105°	180	219	225	162	176	190
115°	324	344	397	435	448	321
125°	452	456	498	527	538	404
135°	560	562	579	605	610	431
145°	644	647	648	660	666	403
155°	708	707	708	711	707	326
165°	747	746	745	749	746	211
175°	765	762	762	766	762	73
180°	765	765	765	765	765	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1234.8	1234.8	1234.8	1234.8	1234.8
2.5°	1241.6	1237.5	1226.8	1237.5	1236.2
5°	1236.2	1233.5	1225.4	1236.2	1234.8
7.5°	1226.8	1226.8	1218.7	1232.1	1230.8
10°	1213.3	1216.0	1209.3	1222.7	1220.0
12.5°	1197.2	1201.2	1197.2	1209.3	1206.6
15°	1177.0	1181.0	1179.7	1193.1	1191.8
17.5°	1152.8	1160.8	1159.5	1171.6	1168.9
20°	1125.9	1133.9	1136.6	1148.7	1150.1
22.5°	1097.6	1105.7	1109.7	1125.9	1124.5
25°	1062.7	1076.1	1080.1	1097.6	1097.6
27.5°	1029.0	1043.8	1051.9	1066.7	1068.0
30°	992.7	1010.2	1021.0	1037.1	1037.1
32.5°	952.4	972.5	987.3	1004.8	1008.8
35°	914.7	936.2	953.7	973.9	979.3
37.5°	874.3	898.5	918.7	941.6	945.6
40°	834.0	858.2	885.1	908.0	913.3
42.5°	789.6	820.5	848.8	874.3	882.4
45°	747.9	780.2	813.8	839.4	850.1
47.5°	703.5	739.8	777.5	805.7	813.8
50°	660.5	698.1	739.8	770.8	780.2
52.5°	614.7	655.1	702.2	734.4	746.5
55°	570.3	614.7	663.2	699.5	710.2
57.5°	527.3	573.0	625.5	661.8	673.9
60°	481.6	530.0	585.1	622.8	637.6
62.5°	438.5	488.3	547.5	585.1	598.6
65°	394.1	446.6	505.8	546.1	559.6
67.5°	349.7	404.9	464.1	508.5	519.2
70°	302.7	360.5	425.1	468.1	481.6
72.5°	259.6	317.5	384.7	429.1	442.5
75°	213.9	277.1	344.4	388.7	404.9
77.5°	174.9	238.1	305.3	352.4	364.5
80°	133.2	199.1	269.0	314.8	328.2
82.5°	96.8	164.1	235.4	281.1	294.6
85°	65.9	133.2	204.5	250.2	263.6
87.5°	40.4	107.6	176.2	221.9	235.4
90°	18.1	89.6	165.6	213.6	228.2
92.5°	29.2	83.7	156.0	204.3	217.0
95°	49.5	78.7	150.8	196.5	209.9
97.5°	76.6	109.1	143.3	188.2	202.2
100°	108.1	162.6	135.7	179.3	193.4
102.5°	144.3	189.3	151.0	169.9	184.5
105°	180.1	218.6	225.3	162.4	175.7
107.5°	216.8	250.2	313.8	262.6	200.3
110°	253.6	282.3	342.3	358.6	288.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	289.9	312.7	370.0	408.8	419.8
115°	324.3	343.9	397.4	435.4	448.4
117.5°	359.5	374.3	422.9	459.7	471.1
120°	390.6	402.4	448.5	484.0	493.4
122.5°	423.6	430.3	474.2	506.7	516.6
125°	451.7	456.3	497.5	527.0	537.5
127.5°	481.3	484.5	521.0	549.6	557.8
130°	508.5	511.8	541.0	568.8	575.7
132.5°	533.4	537.9	559.8	586.3	594.0
135°	560.1	562.1	579.2	605.2	610.2
137.5°	582.8	586.0	596.6	620.9	626.5
140°	604.1	607.5	613.4	635.8	641.4
142.5°	625.2	627.3	629.0	648.2	653.2
145°	644.5	647.2	648.3	660.2	665.5
147.5°	661.9	664.8	665.9	671.0	673.6
150°	679.0	680.7	681.8	683.0	683.9
152.5°	694.3	694.9	695.5	697.7	694.9
155°	708.5	707.4	708.0	710.8	707.4
157.5°	719.9	719.9	719.3	722.7	718.2
160°	730.1	729.5	729.0	732.4	728.4
162.5°	739.8	738.1	737.5	741.5	738.1
165°	747.2	745.5	744.9	749.4	745.5
167.5°	753.4	751.1	751.1	755.7	751.1
170°	758.5	756.2	756.2	760.8	756.2
172.5°	761.9	759.1	759.7	764.2	759.1
175°	764.8	761.9	762.5	766.5	761.9
177.5°	765.9	763.1	763.6	768.2	762.5
180°	764.8	764.8	764.8	764.8	764.8

(END OF REPORT)