

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: P1011182

Luminaire Tested: S123DIP-B1000D585UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011182
REPORT IS A COMBINATION OF REPORTS P989245 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-D1
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

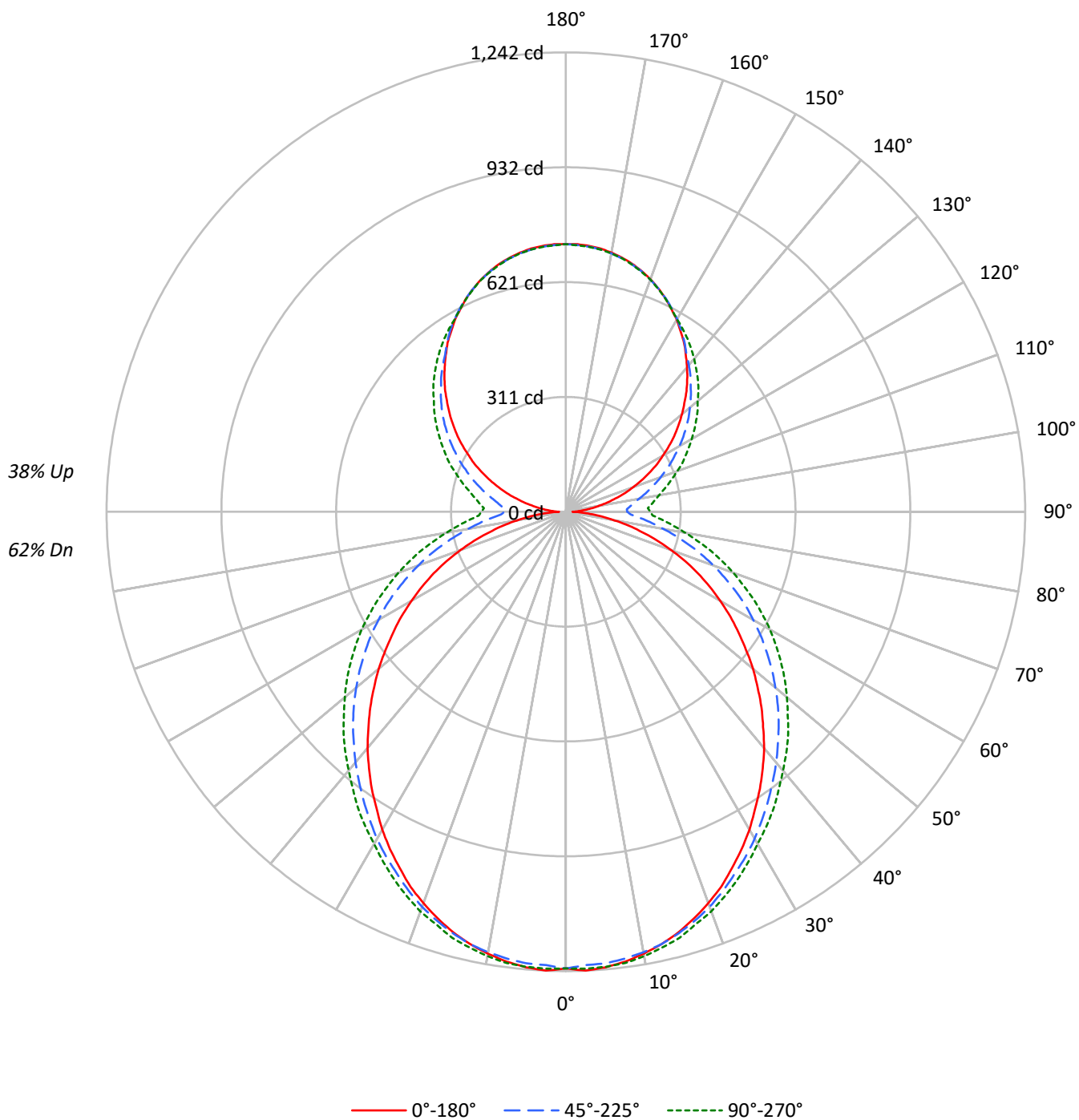
Lumens per Lamp: N/A
Luminaire Lumens: 6156.0 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67
1	99	94	90	86	92	88	84	81	77	74	71	67	64	62	57	56	54
2	90	82	75	69	84	76	70	65	67	62	58	58	54	51	50	47	44
3	82	71	63	57	76	67	60	54	58	53	48	51	46	43	43	40	37
4	74	63	54	48	69	59	51	45	52	46	41	45	40	36	39	35	32
5	68	56	47	41	64	53	45	39	46	40	35	40	35	31	35	31	28
6	63	50	42	35	59	47	39	34	42	35	30	36	31	27	31	27	24
7	58	45	37	31	54	43	35	30	38	31	27	33	28	24	29	25	21
8	54	41	33	27	50	39	31	26	34	28	24	30	25	21	26	22	19
9	50	37	30	24	47	35	28	23	31	25	21	28	23	19	24	20	17
10	47	34	27	22	44	33	26	21	29	23	19	26	21	17	22	18	16

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	1.9
10°-20°	333.9	5.4
20°-30°	499.4	8.1
30°-40°	596.2	9.7
40°-50°	623.8	10.1
50°-60°	585.4	9.5
60°-70°	489.0	7.9
70°-80°	349.6	5.7
80°-90°	209.6	3.4
90°-100°	177.3	2.9
100°-110°	237.0	3.9
110°-120°	304.1	4.9
120°-130°	352.3	5.7
130°-140°	371.2	6.0
140°-150°	352.3	5.7
150°-160°	293.7	4.8
160°-170°	195.5	3.2
170°-180°	68.5	1.1
0°-30°	950.4	15.4
0°-40°	1546.6	25.1
0°-60°	2755.9	44.8
0°-90°	3804.1	61.8
90°-120°	718.5	11.7
90°-150°	1794.3	29.1
90°-180°	2352.0	38.2
0°-180°	6156.0	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	15
95°	48	105	175	219	233	48
105°	139	172	235	273	286	148
115°	248	266	313	346	356	246
125°	358	359	397	423	430	319
135°	461	463	478	500	505	355
145°	558	558	559	569	572	348
155°	637	637	638	640	636	293
165°	694	692	692	696	692	196
175°	722	719	719	723	719	69
180°	723	723	723	723	723	

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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	89.7	165.6	213.6	228.2
92.5°	33.1	94.5	165.1	211.2	222.1
95°	48.3	104.8	175.3	219.2	232.6
97.5°	68.6	119.9	186.5	229.7	242.5
100°	89.4	135.9	200.5	241.2	255.9
102.5°	113.7	153.0	217.5	256.8	269.8
105°	138.7	172.0	235.0	272.6	286.0
107.5°	166.8	195.7	253.1	291.1	302.6
110°	192.8	218.1	273.1	310.3	319.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	221.2	240.6	291.7	328.1	340.3
115°	248.2	266.1	313.4	346.3	356.4
117.5°	277.2	288.6	333.1	365.4	374.5
120°	302.6	312.7	354.3	384.6	392.9
122.5°	330.5	335.4	376.0	403.9	411.6
125°	357.5	359.2	397.0	423.1	430.2
127.5°	383.6	385.7	418.2	441.7	448.8
130°	409.8	413.0	438.2	461.5	465.5
132.5°	434.6	439.1	458.2	479.6	486.1
135°	461.3	463.3	477.5	499.6	505.1
137.5°	485.7	487.2	498.4	517.0	522.0
140°	509.9	512.8	517.4	537.1	539.8
142.5°	533.2	534.8	535.9	552.8	556.7
145°	557.6	557.5	559.2	569.4	572.4
147.5°	577.4	579.6	581.4	585.4	587.3
150°	599.5	600.7	601.8	601.8	601.1
152.5°	617.7	619.4	620.0	621.1	618.3
155°	637.0	637.0	637.6	639.9	635.9
157.5°	653.5	653.0	653.5	655.8	652.4
160°	668.9	667.7	667.7	670.6	668.3
162.5°	682.5	680.8	681.4	684.2	680.2
165°	693.9	692.2	692.2	695.6	691.6
167.5°	703.5	701.3	701.8	705.2	701.8
170°	711.5	709.2	709.2	713.2	709.2
172.5°	717.7	715.5	715.5	718.9	714.9
175°	721.7	719.4	719.4	722.9	718.9
177.5°	724.0	721.7	721.7	725.1	721.1
180°	723.4	723.4	723.4	723.4	723.4

(END OF REPORT)