

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: P1011675

Luminaire Tested: S123DIP-B340D805UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011675
REPORT IS A COMBINATION OF REPORTS P989918 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D805UB50-4F0-XX-W2A-F4
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

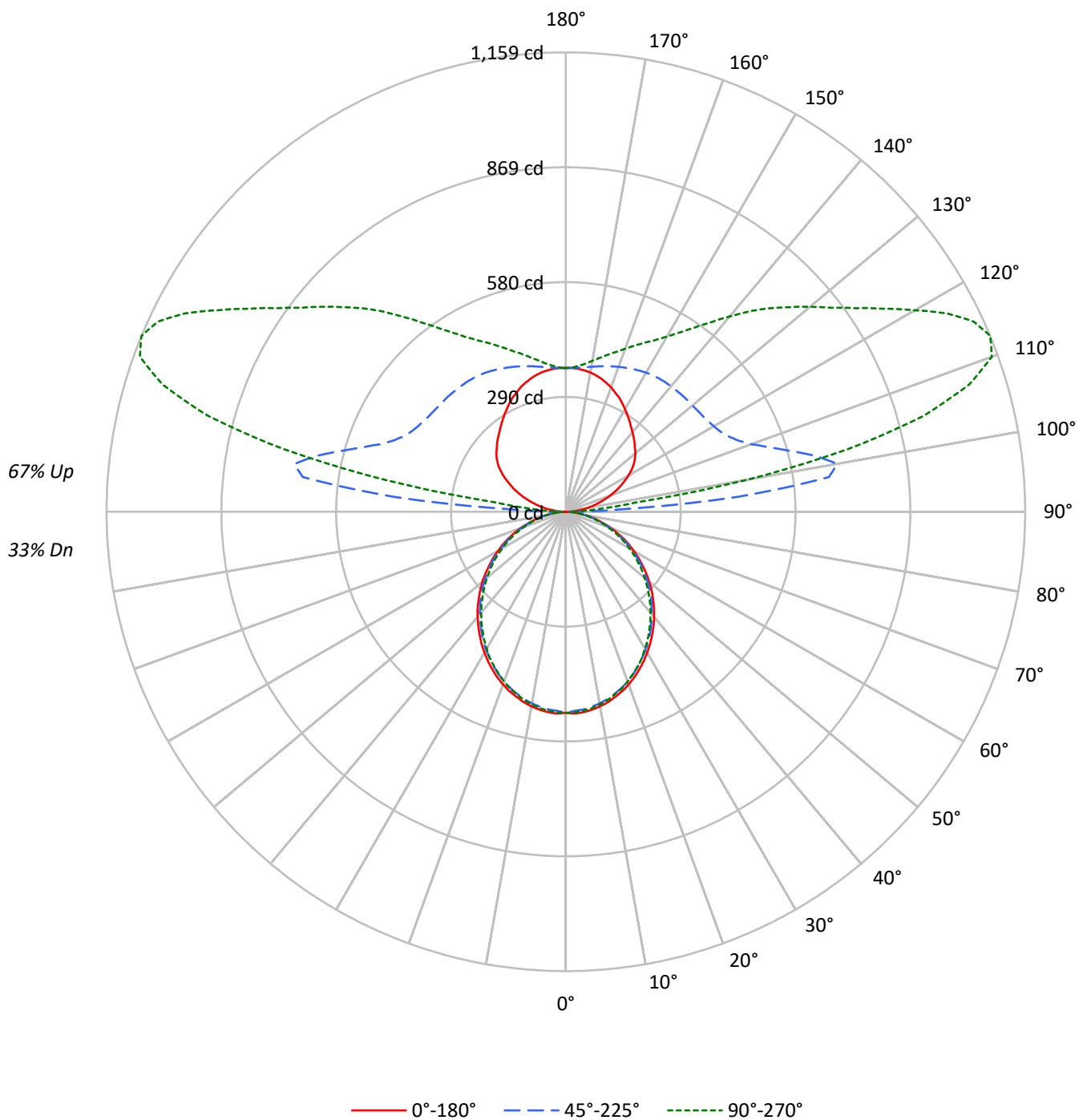
Lumens per Lamp: N/A
Luminaire Lumens: 4056.3 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
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
RCR																	
0	103	103	103	103	93	93	93	93	74	74	74		56	56	56		40
1	94	90	86	82	84	81	78	75	64	62	60		49	48	47		35
2	85	78	72	67	77	71	66	61	56	53	50		43	41	39		31
3	78	69	62	56	70	62	56	51	50	45	42		38	35	33		28
4	71	61	53	47	64	55	48	43	44	39	35		34	31	28		25
5	65	54	46	40	58	49	42	37	39	34	30		30	27	24		22
6	60	48	40	35	54	44	37	32	35	30	26		27	24	21		20
7	55	43	36	30	50	39	33	28	32	27	23		25	21	19		18
8	51	39	32	27	46	36	29	25	29	24	21		23	19	17		17
9	48	36	28	24	43	33	26	22	27	22	18		21	17	15		15
10	44	33	26	21	40	30	24	19	24	20	16		19	16	13		14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5459	5459	5459
5°	5473	5271	5263
10°	5425	5092	5041
15°	5349	4907	4798
20°	5263	4701	4557
25°	5150	4483	4300
30°	5028	4259	4029
35°	4900	4029	3760
40°	4766	3787	3496
45°	4617	3552	3220
50°	4467	3291	2943
55°	4274	3017	2662
60°	4077	2717	2363
65°	3890	2391	2051
70°	3622	2029	1687
75°	3233	1607	1310
80°	2796	1130	925
85°	2180	607	463

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4617 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.8	1.2
10°-20°	135.0	3.3
20°-30°	199.4	4.9
30°-40°	232.9	5.7
40°-50°	234.1	5.8
50°-60°	205.7	5.1
60°-70°	153.2	3.8
70°-80°	87.2	2.1
80°-90°	26.8	0.7
90°-100°	206.1	5.1
100°-110°	576.0	14.2
110°-120°	561.7	13.8
120°-130°	447.2	11.0
130°-140°	353.1	8.7
140°-150°	263.4	6.5
150°-160°	183.8	4.5
160°-170°	107.9	2.7
170°-180°	35.1	0.9
0°-30°	382.2	9.4
0°-40°	615.1	15.2
0°-60°	1054.9	26.0
0°-90°	1322.0	32.6
90°-120°	1343.8	33.1
90°-150°	2407.5	59.4
90°-180°	2734.0	67.4
0°-180°	4056.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	507	507	507	507	507	
5°	508	505	501	505	504	48
15°	483	482	476	479	477	136
25°	439	436	430	431	430	202
35°	379	377	371	368	366	237
45°	311	309	304	298	296	240
55°	236	236	230	225	223	211
65°	161	159	154	151	150	159
75°	85	83	82	80	78	91
85°	23	22	22	21	21	24
90°	2	9	18	21	21	3
95°	25	81	435	127	85	26
105°	85	126	590	1032	934	90
115°	150	188	452	990	1136	149
125°	209	247	421	764	896	186
135°	245	293	416	629	726	189
145°	280	320	410	516	568	175
155°	318	343	397	452	471	146
165°	347	357	380	403	410	98
175°	362	362	365	370	369	34
180°	363	363	363	363	363	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	507.2	507.2	507.2	507.2	507.2
2.5°	509.4	507.6	502.8	507.2	506.8
5°	507.6	505.4	500.7	505.0	504.1
7.5°	503.7	501.5	496.7	500.7	500.2
10°	498.5	496.3	490.6	494.5	493.7
12.5°	491.5	489.7	484.5	487.1	486.7
15°	483.2	481.5	475.8	479.3	476.7
17.5°	474.0	471.9	466.2	468.8	467.9
20°	463.6	461.0	455.3	457.0	455.7
22.5°	451.8	449.2	443.5	444.8	443.1
25°	438.7	436.1	430.4	430.9	429.6
27.5°	425.2	422.6	416.5	416.9	415.6
30°	410.4	408.2	402.1	402.1	399.0
32.5°	395.5	392.5	388.1	385.1	383.8
35°	379.4	376.8	371.1	368.5	366.3
37.5°	363.3	359.8	354.1	351.1	349.8
40°	346.3	343.7	337.5	334.1	332.3
42.5°	329.3	326.2	320.1	316.6	314.9
45°	310.9	309.2	303.5	298.3	296.1
47.5°	293.1	290.4	285.2	280.0	278.2
50°	274.7	272.6	266.9	262.1	259.5
52.5°	255.6	254.3	248.1	244.2	241.6
55°	235.9	235.5	229.8	225.0	222.9
57.5°	217.6	215.9	211.5	207.2	204.5
60°	197.6	197.1	191.9	188.0	185.8
62.5°	179.7	178.4	173.1	169.2	167.9
65°	160.9	158.7	154.4	150.9	149.6
67.5°	140.9	139.1	135.6	132.6	130.8
70°	123.0	120.4	117.7	114.7	112.5
72.5°	104.2	102.5	99.4	96.8	95.9
75°	85.0	83.3	82.0	79.8	78.5
77.5°	68.0	67.2	65.4	63.7	63.7
80°	51.5	50.2	49.3	48.8	48.8
82.5°	35.3	35.3	35.3	34.5	34.0
85°	22.7	21.8	21.8	20.9	20.9
87.5°	11.3	10.0	9.6	9.2	9.2
90°	1.5	8.8	18.4	20.6	21.3
92.5°	11.0	44.0	136.5	46.6	38.9
95°	25.0	81.1	435.3	127.0	85.2
97.5°	39.6	92.9	669.5	319.4	174.7
100°	54.3	102.4	695.2	668.0	460.3
102.5°	69.7	113.4	647.5	894.6	729.0
105°	85.2	125.9	590.2	1032.2	933.8
107.5°	101.3	140.6	539.6	1092.8	1067.4
110°	118.9	155.6	497.7	1094.6	1143.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	135.1	171.4	469.8	1053.1	1159.2
115°	150.5	187.6	451.5	990.0	1135.7
117.5°	165.9	203.0	439.0	922.4	1084.3
120°	182.1	218.4	430.9	858.6	1016.8
122.5°	196.0	233.1	425.8	808.3	953.6
125°	209.2	247.0	421.4	763.5	895.6
127.5°	219.5	260.2	419.2	726.8	845.7
130°	229.1	272.0	417.0	693.0	804.6
132.5°	236.4	282.6	416.3	661.4	764.2
135°	245.2	292.6	415.5	628.8	726.1
137.5°	253.3	300.6	414.1	598.0	685.7
140°	261.4	308.0	413.3	567.8	643.1
142.5°	270.2	314.6	411.9	540.3	603.5
145°	279.7	320.4	410.4	515.8	567.5
147.5°	289.2	326.6	408.2	496.6	536.7
150°	298.8	331.8	405.2	479.8	510.2
152.5°	308.3	337.4	401.6	465.1	488.2
155°	317.9	342.8	397.2	451.5	470.6
157.5°	325.2	347.6	393.5	438.3	453.7
160°	334.0	351.6	389.1	426.2	437.5
162.5°	340.6	354.6	384.7	414.8	422.9
165°	347.2	357.2	380.3	403.4	410.4
167.5°	352.4	359.4	375.9	393.5	397.9
170°	356.8	360.4	371.5	384.7	386.9
172.5°	359.7	361.5	367.8	377.0	376.6
175°	361.9	362.3	364.9	370.0	369.3
177.5°	363.4	362.7	362.7	365.6	364.1
180°	362.7	362.7	362.7	362.7	362.7

(END OF REPORT)