

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: P1031675

Luminaire Tested: S123DIW-B340D755UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031675
REPORT IS A COMBINATION OF REPORTS P991477 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B340D755UB30-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

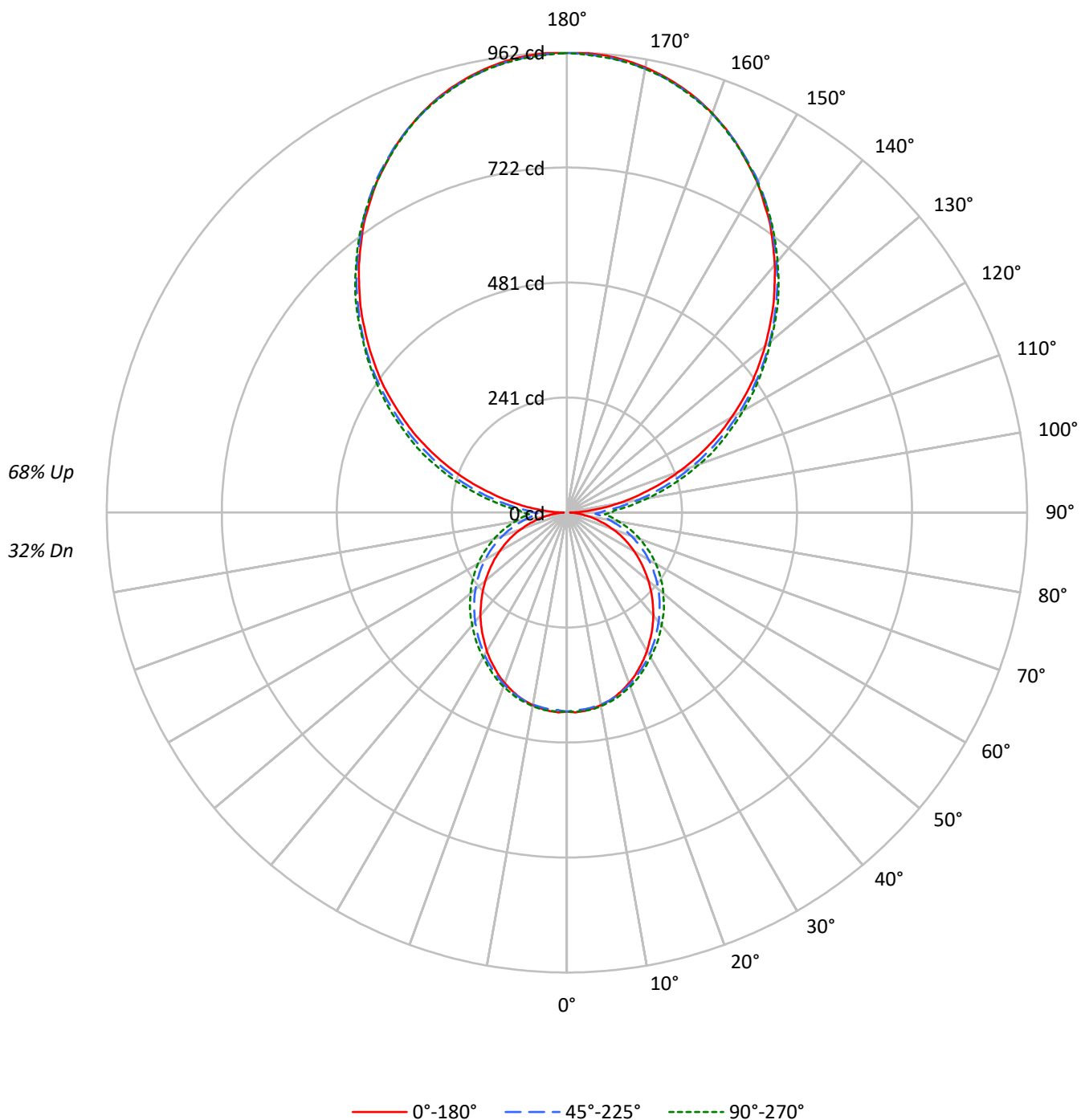
Lumens per Lamp: N/A
Luminaire Lumens: 4064.0 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 36.2
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	39	39	39
1	93	88	84	81	83	80	76	73	63	61	58	48	46	45	34	33	32	32	32	32
2	84	77	71	65	75	69	64	59	55	51	48	41	39	37	29	28	26	26	26	26
3	77	67	60	54	69	61	54	49	48	44	40	36	33	31	26	24	22	22	22	22
4	70	59	51	45	63	53	47	41	42	38	34	32	29	26	23	21	19	19	19	19
5	64	53	45	39	57	48	41	35	38	33	29	29	25	22	20	18	16	16	16	16
6	59	47	39	33	53	42	36	30	34	29	25	26	22	19	18	16	14	14	14	14
7	54	42	34	29	49	38	31	27	31	26	22	23	20	17	17	14	12	12	12	12
8	50	38	31	25	45	35	28	23	28	23	19	21	18	15	15	13	11	11	11	11
9	47	35	27	22	42	32	25	21	25	20	17	20	16	13	14	12	10	10	10	10
10	44	32	25	20	39	29	23	18	23	19	15	18	15	12	13	11	9	9	9	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4481	4481	4481
5°	4493	4349	4346
10°	4451	4232	4199
15°	4392	4102	4044
20°	4308	3957	3877
25°	4205	3793	3704
30°	4101	3646	3530
35°	3981	3490	3389
40°	3869	3349	3239
45°	3744	3211	3116
50°	3620	3075	2982
55°	3484	2936	2859
60°	3349	2793	2733
65°	3213	2641	2586
70°	3004	2470	2433
75°	2743	2276	2277
80°	2438	2079	2098
85°	2132	1919	1970

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3744 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.5	1.0
10°-20°	112.6	2.8
20°-30°	168.3	4.1
30°-40°	201.0	4.9
40°-50°	210.3	5.2
50°-60°	197.3	4.9
60°-70°	164.8	4.1
70°-80°	117.9	2.9
80°-90°	72.2	1.8
90°-100°	105.9	2.6
100°-110°	219.7	5.4
110°-120°	340.4	8.4
120°-130°	431.7	10.6
130°-140°	476.9	11.7
140°-150°	464.6	11.4
150°-160°	390.2	9.6
160°-170°	259.7	6.4
170°-180°	91.0	2.2
0°-30°	320.4	7.9
0°-40°	521.4	12.8
0°-60°	929.0	22.9
0°-90°	1283.9	31.6
90°-120°	666.0	16.4
90°-150°	2039.2	50.2
90°-180°	2780.0	68.4
0°-180°	4064.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	416	416	416	416	416	
5°	417	416	413	417	416	40
15°	397	398	398	402	402	112
25°	358	363	364	370	370	165
35°	308	316	322	328	330	193
45°	252	263	274	283	287	194
55°	192	207	224	236	239	172
65°	133	150	170	184	189	131
75°	72	93	116	131	136	77
85°	22	45	69	84	89	23
90°	7	36	69	88	94	8
95°	50	72	101	118	122	53
105°	174	186	212	225	230	185
115°	323	331	346	357	360	320
125°	471	473	485	491	492	420
135°	610	614	618	624	624	470
145°	740	741	743	746	744	462
155°	846	846	847	850	845	390
165°	922	920	920	924	919	260
175°	959	956	956	960	955	91
180°	961	961	961	961	961	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	416.3	416.3	416.3	416.3	416.3
2.5°	418.5	417.2	413.6	417.2	416.7
5°	416.7	415.8	413.1	416.7	416.3
7.5°	413.6	413.6	410.8	415.4	414.9
10°	409.0	409.9	407.7	412.2	411.3
12.5°	403.6	404.9	403.6	407.7	406.7
15°	396.8	398.1	397.7	402.2	401.8
17.5°	388.6	391.3	390.9	395.0	394.1
20°	379.5	382.3	383.2	387.3	387.7
22.5°	370.0	372.7	374.1	379.5	379.1
25°	358.2	362.8	364.1	370.0	370.0
27.5°	346.9	351.9	354.6	359.6	360.0
30°	334.7	340.5	344.2	349.6	349.6
32.5°	321.0	327.8	332.8	338.7	340.1
35°	308.3	315.6	321.5	328.3	330.1
37.5°	294.7	302.9	309.7	317.4	318.8
40°	281.1	289.3	298.4	306.1	307.9
42.5°	266.2	276.6	286.1	294.7	297.5
45°	252.1	263.0	274.3	283.0	286.6
47.5°	237.2	249.4	262.1	271.6	274.3
50°	222.6	235.3	249.4	259.8	263.0
52.5°	207.2	220.8	236.7	247.6	251.7
55°	192.3	207.2	223.6	235.8	239.4
57.5°	177.8	193.2	210.9	223.1	227.2
60°	162.3	178.7	197.3	209.9	214.9
62.5°	147.8	164.6	184.6	197.3	201.8
65°	132.9	150.5	170.5	184.1	188.6
67.5°	117.9	136.5	156.4	171.4	175.0
70°	102.0	121.5	143.3	157.8	162.3
72.5°	87.5	107.0	129.7	144.7	149.2
75°	72.1	93.4	116.1	131.0	136.5
77.5°	58.9	80.3	102.9	118.8	122.9
80°	44.9	67.1	90.7	106.1	110.6
82.5°	32.6	55.3	79.4	94.8	99.3
85°	22.2	44.9	68.9	84.3	88.9
87.5°	13.6	36.3	59.4	74.8	79.4
90°	6.7	36.4	69.3	87.8	93.8
92.5°	28.0	52.1	79.3	96.6	99.2
95°	49.5	72.5	100.8	117.8	122.4
97.5°	77.7	97.9	123.7	141.1	144.9
100°	106.8	125.8	150.5	165.8	171.9
102.5°	140.2	155.2	180.9	195.9	199.7
105°	173.5	185.9	212.2	224.9	230.5
107.5°	212.3	222.6	244.2	258.7	262.0
110°	248.1	257.8	277.4	292.2	294.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	285.8	293.0	310.2	325.2	329.3
115°	323.2	330.8	345.6	357.3	360.1
117.5°	361.7	366.0	379.9	390.8	392.1
120°	396.6	403.5	414.6	424.3	425.9
122.5°	433.6	437.6	450.2	457.9	458.7
125°	471.0	473.3	484.8	491.3	491.5
127.5°	505.7	509.7	519.5	524.1	524.3
130°	540.4	546.0	552.8	558.4	555.8
132.5°	574.7	580.7	586.0	590.4	589.8
135°	610.2	614.3	618.4	623.6	624.4
137.5°	642.6	646.0	651.4	654.9	654.9
140°	676.2	680.0	682.0	688.1	685.1
142.5°	707.2	710.4	711.9	717.1	715.6
145°	739.6	740.6	742.9	745.7	744.5
147.5°	767.0	770.1	772.3	773.7	771.0
150°	796.5	798.0	799.5	799.5	795.9
152.5°	820.7	822.9	823.7	825.2	821.4
155°	846.3	846.3	847.1	850.1	844.8
157.5°	868.2	867.5	868.2	871.2	866.7
160°	888.6	887.1	887.1	890.9	887.8
162.5°	906.7	904.5	905.2	909.0	903.7
165°	921.8	919.6	919.6	924.1	918.8
167.5°	934.7	931.6	932.4	936.9	932.4
170°	945.2	942.2	942.2	947.5	942.2
172.5°	953.5	950.5	950.5	955.0	949.8
175°	958.8	955.8	955.8	960.3	955.0
177.5°	961.8	958.8	958.8	963.3	958.1
180°	961.1	961.1	961.1	961.1	961.1

(END OF REPORT)