

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: P1035361

Luminaire Tested: S125DIW-B375D770UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035361
REPORT IS A COMBINATION OF REPORTS P1003680 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B375D770UB30-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

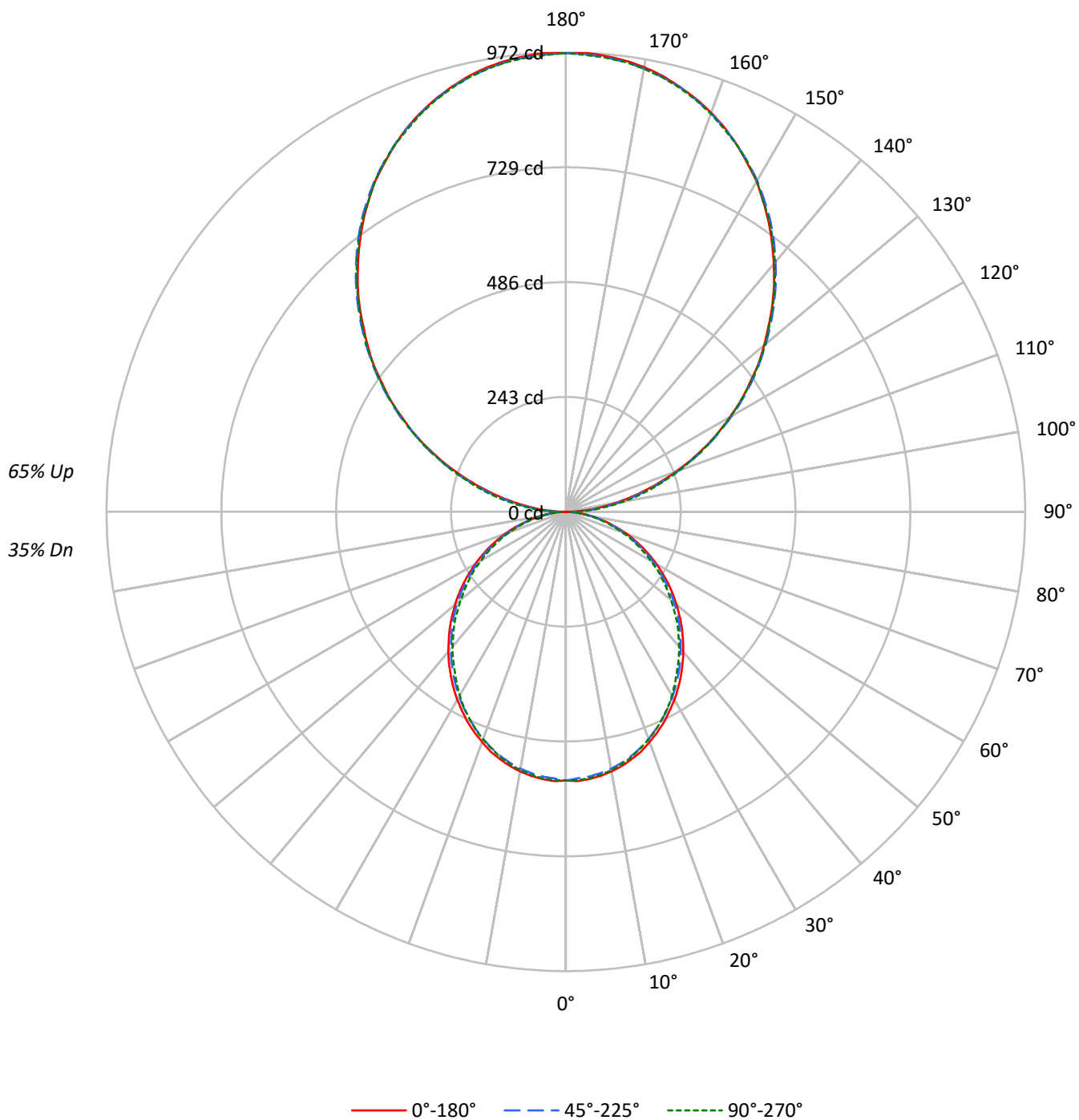
Lumens per Lamp: N/A
Luminaire Lumens: 4190.0 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 36.2
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35		
1	94	90	86	83	85	82	78	76	66	64	62	51	50	48	38	37	36	30		
2	86	79	73	68	77	71	66	62	58	54	51	45	42	40	33	32	30	25		
3	78	69	62	56	71	63	57	52	51	46	43	40	37	34	29	27	26	21		
4	72	61	53	47	64	56	49	44	45	40	36	35	32	29	26	24	22	18		
5	66	54	46	41	59	49	43	37	40	35	31	32	28	25	24	21	19	16		
6	60	49	41	35	54	44	37	32	36	31	27	28	25	22	21	19	17	14		
7	56	44	36	31	50	40	33	28	33	28	24	26	22	19	19	17	15	12		
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	15	13	11		
9	48	36	29	24	43	33	27	22	27	22	19	22	18	15	16	14	12	10		
10	45	33	26	21	41	30	24	20	25	20	17	20	16	14	15	13	11	9		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3643	3643	3643
5°	3643	3559	3565
10°	3613	3477	3466
15°	3566	3380	3349
20°	3501	3266	3215
25°	3433	3143	3071
30°	3350	3014	2920
35°	3261	2879	2751
40°	3169	2737	2600
45°	3070	2598	2439
50°	2961	2441	2253
55°	2853	2267	2081
60°	2724	2084	1882
65°	2570	1872	1675
70°	2414	1629	1437
75°	2149	1341	1161
80°	1832	1002	854
85°	1412	593	470

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3070 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.7	1.3
10°-20°	151.6	3.6
20°-30°	223.8	5.3
30°-40°	261.1	6.2
40°-50°	262.2	6.3
50°-60°	230.2	5.5
60°-70°	171.4	4.1
70°-80°	97.9	2.3
80°-90°	29.8	0.7
90°-100°	64.5	1.5
100°-110°	191.7	4.6
110°-120°	325.1	7.8
120°-130°	428.0	10.2
130°-140°	479.7	11.4
140°-150°	470.1	11.2
150°-160°	394.9	9.4
160°-170°	262.5	6.3
170°-180°	91.9	2.2
0°-30°	429.0	10.2
0°-40°	690.0	16.5
0°-60°	1182.4	28.2
0°-90°	1481.5	35.4
90°-120°	581.4	13.9
90°-150°	1959.2	46.8
90°-180°	2708.0	64.6
0°-180°	4190.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	569	569	569	569	569	
5°	568	567	562	566	566	54
15°	541	540	535	537	537	153
25°	491	489	483	484	483	226
35°	424	422	416	414	410	265
45°	347	346	340	335	333	268
55°	264	263	257	253	250	236
65°	179	178	173	169	167	177
75°	95	94	92	90	89	101
85°	25	25	25	25	24	27
90°	1	7	12	16	18	5
95°	49	51	58	63	65	51
105°	172	176	180	185	187	184
115°	326	328	330	329	328	322
125°	475	480	480	479	478	426
135°	618	622	623	623	620	476
145°	748	751	754	754	751	468
155°	856	856	857	860	856	394
165°	931	930	930	934	929	263
175°	968	965	965	970	964	92
180°	970	970	970	970	970	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	568.6	568.6	568.6	568.6	568.6
2.5°	570.4	569.1	564.6	569.1	568.6
5°	567.7	566.8	562.3	566.4	565.9
7.5°	563.7	562.8	557.8	561.9	561.4
10°	557.8	556.9	552.0	555.6	555.1
12.5°	550.6	548.8	544.3	547.0	547.0
15°	541.2	539.8	534.9	537.1	537.1
17.5°	531.3	529.0	524.1	526.8	524.5
20°	518.2	517.3	511.5	514.6	512.4
22.5°	505.2	503.4	498.0	499.8	498.4
25°	491.3	489.0	483.2	484.1	482.7
27.5°	475.1	473.7	467.9	468.3	467.0
30°	459.3	458.0	451.2	450.3	449.0
32.5°	442.2	440.0	434.1	432.3	429.6
35°	424.2	422.4	416.1	413.9	410.3
37.5°	405.8	403.5	397.7	394.5	392.3
40°	386.9	384.6	378.3	374.3	372.9
42.5°	366.6	364.8	358.5	354.9	352.7
45°	347.3	345.5	340.1	334.7	333.3
47.5°	326.2	326.6	319.9	314.5	311.3
50°	305.9	304.6	299.2	293.3	290.2
52.5°	285.2	284.3	278.5	273.5	269.9
55°	264.5	263.2	256.9	252.8	249.7
57.5°	242.5	242.0	236.6	231.2	229.9
60°	221.8	220.0	215.0	210.5	207.4
62.5°	200.2	198.8	194.8	189.8	187.6
65°	178.6	177.7	172.7	168.7	166.9
67.5°	157.5	155.7	152.1	148.5	147.6
70°	137.7	135.4	131.4	128.7	126.9
72.5°	116.1	114.7	112.5	109.3	107.5
75°	94.9	94.0	91.8	90.4	88.6
77.5°	75.1	74.7	73.3	72.4	71.1
80°	56.7	56.7	55.8	55.3	54.4
82.5°	40.5	39.6	39.6	38.7	38.7
85°	24.7	25.2	25.2	24.7	23.8
87.5°	12.1	12.1	11.7	11.7	10.8
90°	0.8	6.8	12.1	15.9	18.1
92.5°	22.7	26.4	33.2	38.5	40.0
95°	49.1	50.6	58.2	63.4	64.9
97.5°	75.5	76.3	86.9	91.4	92.1
100°	105.7	105.7	115.5	122.3	123.9
102.5°	138.2	142.0	145.8	153.3	155.6
105°	172.2	176.0	180.5	185.0	187.3
107.5°	209.2	213.0	216.7	219.0	219.0
110°	247.7	251.5	253.8	256.0	255.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	287.0	288.5	291.5	292.3	290.8
115°	325.5	328.5	330.0	329.3	328.5
117.5°	364.8	365.5	367.0	367.8	364.8
120°	401.0	404.8	405.6	405.6	402.5
122.5°	440.3	441.1	443.3	442.6	440.3
125°	475.0	479.6	480.3	478.8	478.1
127.5°	513.6	515.8	516.6	515.8	514.3
130°	547.5	551.3	552.8	552.1	550.6
132.5°	581.5	588.3	587.6	586.8	584.5
135°	617.8	622.3	623.1	623.1	620.0
137.5°	651.8	656.3	657.8	658.6	654.8
140°	684.2	688.0	690.3	691.8	688.0
142.5°	716.7	719.7	722.8	723.5	719.7
145°	748.4	751.4	753.7	753.7	751.4
147.5°	777.9	780.1	781.7	783.9	777.9
150°	807.3	806.6	809.6	809.6	808.1
152.5°	831.5	833.0	833.8	836.0	833.0
155°	856.4	856.4	857.2	860.2	856.4
157.5°	879.1	877.6	878.3	881.3	876.1
160°	898.7	896.5	897.2	900.2	896.5
162.5°	916.1	914.6	914.6	918.4	913.8
165°	931.2	929.7	930.4	933.5	928.9
167.5°	944.8	941.8	941.8	946.3	941.8
170°	955.4	952.3	952.3	956.9	951.6
172.5°	962.9	959.9	959.9	964.4	959.9
175°	968.2	965.2	965.2	969.7	964.4
177.5°	972.0	969.0	968.2	972.7	967.4
180°	970.5	970.5	970.5	970.5	970.5

(END OF REPORT)