

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: P1034531

Luminaire Tested: S125DIW-B375D770UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034531
REPORT IS A COMBINATION OF REPORTS P1003662 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B375D770UB2750-4F0-XX-W2A-D_3000K
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

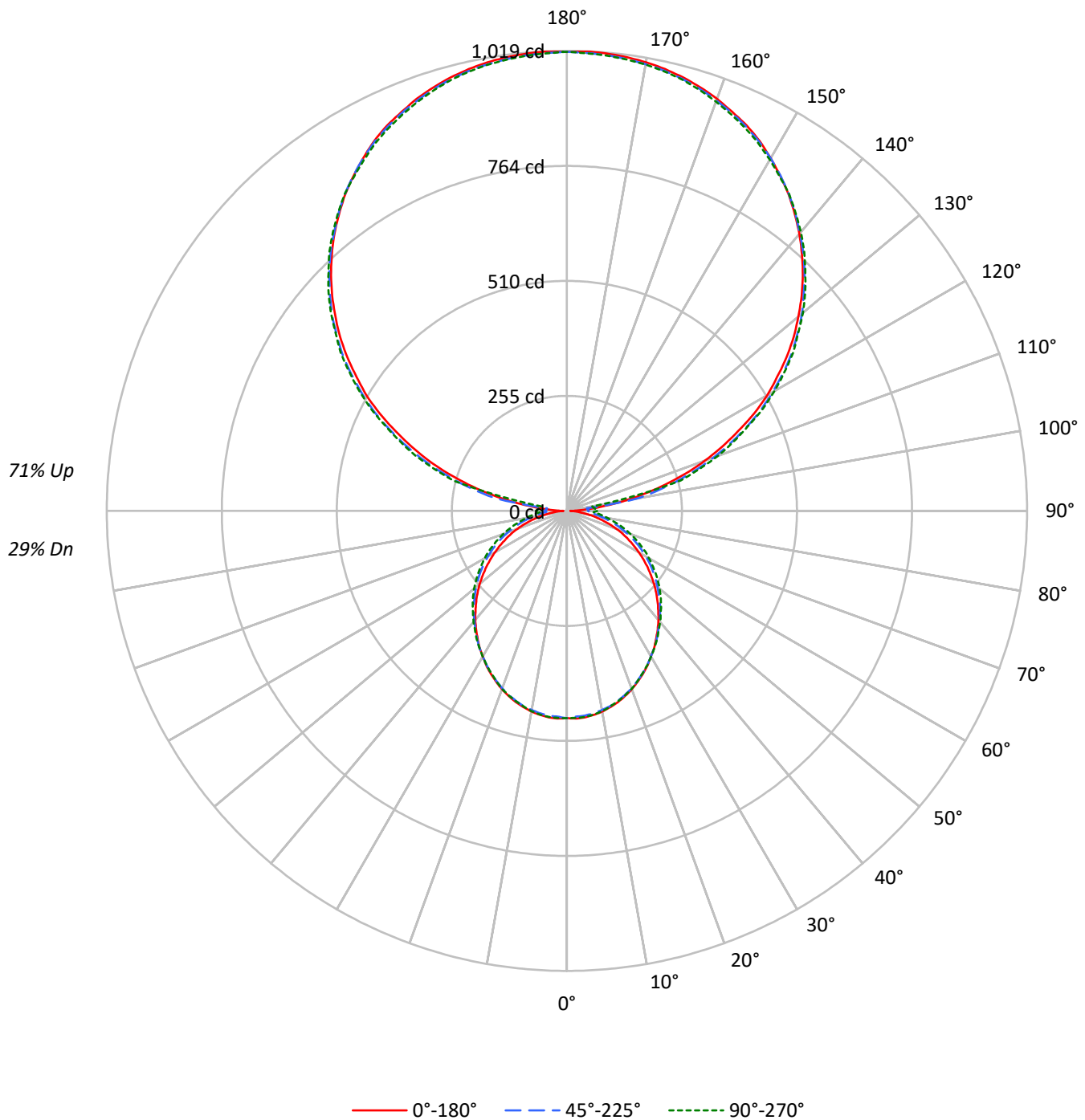
Lumens per Lamp: N/A
Luminaire Lumens: 4547.2 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 36.2
Input Voltage (V):
Input Current (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	50	30	10
RCR																				
0	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37			29
1	93	88	84	81	83	79	76	73	62	60	58	47	45	44	32	31	30			24
2	84	77	71	66	75	69	64	59	54	51	48	41	38	36	28	27	25			20
3	77	67	60	54	68	61	54	49	48	43	40	36	33	30	25	23	21			16
4	70	59	52	46	62	53	47	42	42	37	34	32	28	26	22	20	18			14
5	64	53	45	39	57	47	41	35	38	33	29	28	25	22	20	18	16			12
6	59	47	39	33	53	42	36	31	34	29	25	25	22	19	18	16	14			11
7	54	42	35	29	48	38	31	27	30	25	22	23	20	17	16	14	12			9
8	50	38	31	26	45	35	28	23	28	23	19	21	18	15	15	13	11			8
9	47	35	28	23	42	32	25	21	25	20	17	19	16	13	14	11	10			7
10	44	32	25	20	39	29	23	18	23	18	15	18	14	12	13	10	9			7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2941	2941	2941
5°	2946	2879	2886
10°	2924	2821	2813
15°	2888	2752	2722
20°	2840	2670	2632
25°	2783	2582	2523
30°	2714	2487	2423
35°	2650	2398	2332
40°	2585	2305	2240
45°	2511	2225	2157
50°	2439	2137	2082
55°	2354	2054	1996
60°	2261	1959	1907
65°	2163	1859	1806
70°	2051	1724	1702
75°	1875	1591	1576
80°	1645	1431	1435
85°	1418	1303	1361

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2511 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.4	1.0
10°-20°	123.3	2.7
20°-30°	183.4	4.0
30°-40°	217.2	4.8
40°-50°	224.5	4.9
50°-60°	206.8	4.5
60°-70°	167.2	3.7
70°-80°	111.9	2.5
80°-90°	59.4	1.3
90°-100°	67.1	1.5
100°-110°	253.5	5.6
110°-120°	429.4	9.4
120°-130°	539.6	11.9
130°-140°	574.5	12.6
140°-150°	536.3	11.8
150°-160°	433.1	9.5
160°-170°	280.1	6.2
170°-180°	96.6	2.1
0°-30°	350.1	7.7
0°-40°	567.3	12.5
0°-60°	998.6	22.0
0°-90°	1337.0	29.4
90°-120°	750.0	16.5
90°-150°	2400.3	52.8
90°-180°	3210.0	70.6
0°-180°	4547.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	459	459	459	459	459	
5°	459	458	455	459	458	44
15°	438	439	436	438	436	124
25°	398	400	397	399	396	183
35°	345	348	346	348	348	216
45°	284	289	291	294	295	219
55°	218	226	233	238	239	195
65°	150	161	172	178	180	149
75°	83	94	109	118	120	88
85°	25	40	55	65	69	26
90°	8	28	49	63	68	7
95°	49	58	45	59	62	57
105°	226	236	249	258	261	239
115°	419	426	438	443	442	415
125°	594	598	607	612	612	530
135°	739	743	745	749	747	570
145°	856	857	857	860	857	535
155°	942	938	939	942	935	434
165°	994	990	990	995	989	281
175°	1017	1012	1013	1019	1012	97
180°	1017	1017	1017	1017	1017	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	459.0	459.0	459.0	459.0	459.0
2.5°	460.4	459.5	456.3	459.5	459.0
5°	459.0	458.1	455.0	458.6	458.1
7.5°	455.9	455.4	452.3	455.4	455.0
10°	451.4	451.4	447.8	450.9	450.5
12.5°	445.1	445.5	442.8	445.1	443.7
15°	438.3	438.8	435.6	438.3	436.5
17.5°	429.8	430.7	427.5	429.8	428.4
20°	420.3	421.2	418.1	419.4	419.4
22.5°	409.5	411.3	407.7	409.5	408.2
25°	398.3	399.6	396.9	398.7	396.5
27.5°	386.1	387.9	384.8	386.1	385.2
30°	372.2	374.9	372.2	373.1	372.6
32.5°	359.6	361.8	360.0	360.9	360.5
35°	344.7	347.9	346.5	347.9	347.9
37.5°	330.3	333.0	332.6	334.4	333.9
40°	315.5	319.1	318.6	320.4	321.3
42.5°	299.3	304.2	305.6	307.8	307.8
45°	284.0	288.9	291.2	294.3	294.8
47.5°	268.2	272.7	276.3	280.8	281.7
50°	252.0	257.0	261.9	266.9	268.2
52.5°	234.9	241.2	247.5	252.9	253.8
55°	218.3	225.5	232.7	237.6	239.4
57.5°	201.2	209.7	217.8	223.2	224.6
60°	184.1	193.1	202.1	208.8	210.2
62.5°	167.4	176.4	186.3	194.0	195.8
65°	150.3	160.7	171.5	178.2	180.0
67.5°	134.6	144.5	155.3	163.4	165.6
70°	117.0	127.4	139.1	147.6	150.3
72.5°	99.9	110.7	123.8	133.2	135.0
75°	82.8	94.5	108.9	117.9	120.2
77.5°	66.2	79.7	93.2	103.1	104.9
80°	50.9	64.4	79.7	89.6	91.4
82.5°	36.9	51.3	67.1	76.5	80.1
85°	24.8	39.6	55.4	65.3	68.9
87.5°	15.8	30.2	45.5	55.8	59.0
90°	8.0	28.4	49.0	63.1	68.5
92.5°	20.6	26.9	47.2	60.8	64.8
95°	48.9	58.3	45.0	58.6	61.7
97.5°	86.1	101.4	44.7	55.6	59.5
100°	130.9	142.5	160.0	57.1	56.8
102.5°	176.4	188.0	203.4	213.9	153.3
105°	225.7	235.9	249.4	258.4	260.8
107.5°	276.5	282.8	297.4	307.1	306.8
110°	325.8	331.2	345.3	351.6	355.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	372.5	378.8	391.8	396.8	398.4
115°	418.8	425.7	438.2	443.3	441.5
117.5°	467.4	469.6	483.9	487.0	488.7
120°	512.6	513.1	525.8	531.9	530.8
122.5°	552.0	556.3	567.0	572.7	570.8
125°	593.5	598.4	607.4	611.6	611.5
127.5°	633.1	636.3	643.3	648.5	645.1
130°	669.2	672.5	679.6	683.6	682.1
132.5°	704.9	709.4	711.7	718.0	716.0
135°	738.8	743.0	744.6	748.9	746.6
137.5°	770.5	774.6	774.9	780.3	778.3
140°	801.0	802.5	802.2	808.7	805.9
142.5°	828.9	829.1	830.7	834.8	832.0
145°	856.0	857.0	857.0	860.1	857.4
147.5°	879.6	879.6	880.4	882.1	877.7
150°	902.3	900.8	902.3	903.8	898.2
152.5°	924.1	920.3	921.9	923.4	918.1
155°	942.2	937.7	939.2	941.5	935.4
157.5°	956.5	954.3	954.3	956.5	950.5
160°	971.6	967.1	967.8	970.9	964.8
162.5°	983.7	979.1	979.9	984.4	977.6
165°	994.2	989.7	990.4	995.0	988.9
167.5°	1002.5	998.0	998.7	1004.0	997.2
170°	1009.3	1004.0	1004.8	1010.8	1004.0
172.5°	1013.8	1008.5	1010.0	1015.3	1008.5
175°	1016.8	1012.3	1013.1	1019.1	1012.3
177.5°	1019.1	1014.6	1015.3	1020.6	1014.6
180°	1016.8	1016.8	1016.8	1016.8	1016.8

(END OF REPORT)