

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: P1034535

Luminaire Tested: S125DIW-B375D770UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034535
REPORT IS A COMBINATION OF REPORTS P1003668 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-F_2700K
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

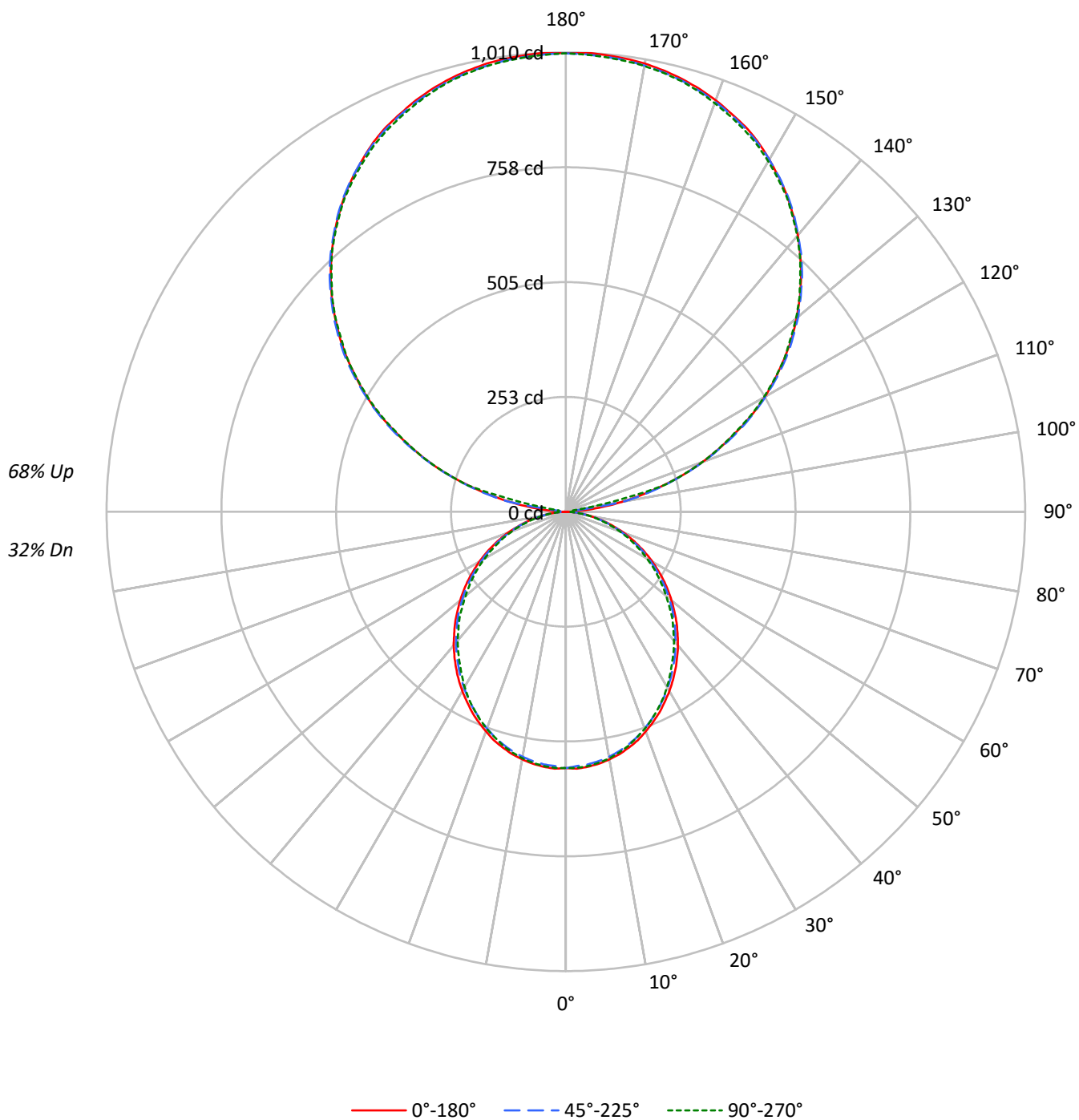
Lumens per Lamp: N/A
Luminaire Lumens: 4565.0 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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				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	73	73	73		56	56	56		40
1	94	90	86	82	84	81	78	75	64	62	60		49	48	46		35
2	85	78	72	67	77	70	65	61	56	53	50		43	41	39		31
3	78	69	61	56	70	62	56	51	49	45	42		38	35	33		27
4	71	61	53	47	64	55	48	43	44	39	35		34	30	28		24
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	18		18
8	51	39	32	27	46	36	29	25	29	24	20		23	19	16		17
9	48	36	28	24	43	33	26	22	26	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°	3611	3611	3611
5°	3611	3528	3534
10°	3581	3446	3436
15°	3534	3350	3320
20°	3471	3238	3187
25°	3402	3115	3045
30°	3321	2988	2894
35°	3232	2855	2726
40°	3142	2713	2577
45°	3043	2575	2418
50°	2935	2419	2233
55°	2828	2247	2063
60°	2700	2065	1865
65°	2547	1855	1660
70°	2391	1614	1424
75°	2131	1330	1151
80°	1816	993	848
85°	1401	588	466

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3043 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	1.2
10°-20°	150.2	3.3
20°-30°	221.8	4.9
30°-40°	258.8	5.7
40°-50°	259.9	5.7
50°-60°	228.1	5.0
60°-70°	169.9	3.7
70°-80°	97.1	2.1
80°-90°	29.5	0.6
90°-100°	34.2	0.7
100°-110°	227.5	5.0
110°-120°	409.7	9.0
120°-130°	525.9	11.5
130°-140°	565.6	12.4
140°-150°	530.8	11.6
150°-160°	429.4	9.4
160°-170°	277.7	6.1
170°-180°	95.8	2.1
0°-30°	425.2	9.3
0°-40°	684.0	15.0
0°-60°	1172.0	25.7
0°-90°	1468.5	32.2
90°-120°	671.4	14.7
90°-150°	2293.7	50.2
90°-180°	3097.0	67.8
0°-180°	4565.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	564	564	564	564	564	
5°	563	562	557	561	561	53
15°	536	535	530	532	532	151
25°	487	485	479	480	478	224
35°	420	419	412	410	407	263
45°	344	342	337	332	330	265
55°	262	261	255	251	248	234
65°	177	176	171	167	165	176
75°	94	93	91	90	88	100
85°	24	25	25	24	24	27
90°	1	7	12	16	18	4
95°	43	40	12	16	16	52
105°	220	223	223	223	222	233
115°	412	416	417	414	410	409
125°	587	592	592	589	587	524
135°	732	736	735	733	729	564
145°	848	850	850	850	846	530
155°	934	930	931	933	927	430
165°	986	981	982	986	980	278
175°	1008	1004	1004	1010	1004	96
180°	1008	1008	1008	1008	1008	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	563.6	563.6	563.6	563.6	563.6
2.5°	565.4	564.1	559.6	564.1	563.6
5°	562.7	561.9	557.4	561.4	561.0
7.5°	558.7	557.8	552.9	556.9	556.5
10°	552.9	552.0	547.1	550.7	550.3
12.5°	545.8	544.0	539.6	542.2	542.2
15°	536.4	535.1	530.2	532.4	532.4
17.5°	526.6	524.4	519.5	522.2	519.9
20°	513.7	512.8	507.0	510.1	507.9
22.5°	500.8	499.0	493.6	495.4	494.1
25°	486.9	484.7	478.9	479.8	478.5
27.5°	470.9	469.5	463.7	464.2	462.9
30°	455.3	453.9	447.3	446.4	445.0
32.5°	438.3	436.1	430.3	428.5	425.8
35°	420.5	418.7	412.5	410.2	406.7
37.5°	402.2	400.0	394.2	391.1	388.8
40°	383.5	381.3	375.0	371.0	369.7
42.5°	363.4	361.6	355.4	351.8	349.6
45°	344.2	342.5	337.1	331.8	330.4
47.5°	323.3	323.7	317.0	311.7	308.6
50°	303.2	301.9	296.5	290.7	287.6
52.5°	282.7	281.8	276.0	271.1	267.5
55°	262.2	260.9	254.6	250.6	247.5
57.5°	240.3	239.9	234.6	229.2	227.9
60°	219.8	218.1	213.1	208.7	205.6
62.5°	198.4	197.1	193.1	188.2	185.9
65°	177.0	176.1	171.2	167.2	165.4
67.5°	156.1	154.3	150.7	147.2	146.3
70°	136.4	134.2	130.2	127.5	125.7
72.5°	115.0	113.7	111.5	108.4	106.6
75°	94.1	93.2	91.0	89.6	87.8
77.5°	74.5	74.0	72.7	71.8	70.5
80°	56.2	56.2	55.3	54.8	54.0
82.5°	40.1	39.2	39.2	38.3	38.3
85°	24.5	25.0	25.0	24.5	23.6
87.5°	12.0	12.0	11.6	11.6	10.7
90°	0.7	6.7	12.0	15.7	17.9
92.5°	14.2	7.5	12.0	15.7	16.4
95°	42.6	40.4	12.0	15.7	15.7
97.5°	80.0	84.4	13.5	14.9	15.7
100°	124.8	127.0	130.0	18.7	15.7
102.5°	170.4	173.4	174.9	176.4	113.6
105°	219.7	222.7	222.7	222.7	221.9
107.5°	270.5	270.5	272.0	272.7	269.8
110°	319.8	319.8	321.3	319.1	319.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	366.2	368.4	369.1	366.2	364.7
115°	412.5	416.2	417.0	414.0	409.5
117.5°	461.1	461.1	464.0	459.6	458.1
120°	505.9	505.1	507.4	505.9	502.2
122.5°	545.5	549.2	550.0	548.5	544.0
125°	586.6	591.8	591.8	588.8	586.6
127.5°	626.2	629.9	629.2	627.7	621.7
130°	662.1	665.8	666.6	664.3	660.6
132.5°	697.9	702.4	700.2	700.2	696.4
135°	731.6	736.0	734.6	733.1	728.6
137.5°	762.9	767.4	765.9	765.9	762.2
140°	793.6	795.1	794.3	795.8	791.3
142.5°	821.2	822.0	823.5	823.5	819.0
145°	848.1	849.6	849.6	850.4	845.9
147.5°	872.0	872.0	872.8	873.5	868.3
150°	894.5	893.0	894.5	896.0	890.0
152.5°	916.1	912.4	913.9	915.4	910.2
155°	934.1	929.6	931.1	933.3	927.3
157.5°	948.3	946.0	946.0	948.3	942.3
160°	963.2	958.7	959.5	962.5	956.5
162.5°	975.2	970.7	971.4	975.9	969.2
165°	985.6	981.1	981.9	986.4	980.4
167.5°	993.8	989.4	990.1	995.3	988.6
170°	1000.6	995.3	996.1	1002.1	995.3
172.5°	1005.1	999.8	1001.3	1006.6	999.8
175°	1008.0	1003.6	1004.3	1010.3	1003.6
177.5°	1010.3	1005.8	1006.6	1011.8	1005.8
180°	1008.0	1008.0	1008.0	1008.0	1008.0

(END OF REPORT)