

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: P1035268

Luminaire Tested: S125DIW-B375D1340UB27-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035268
REPORT IS A COMBINATION OF REPORTS P1003452 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B375D1340UB27-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

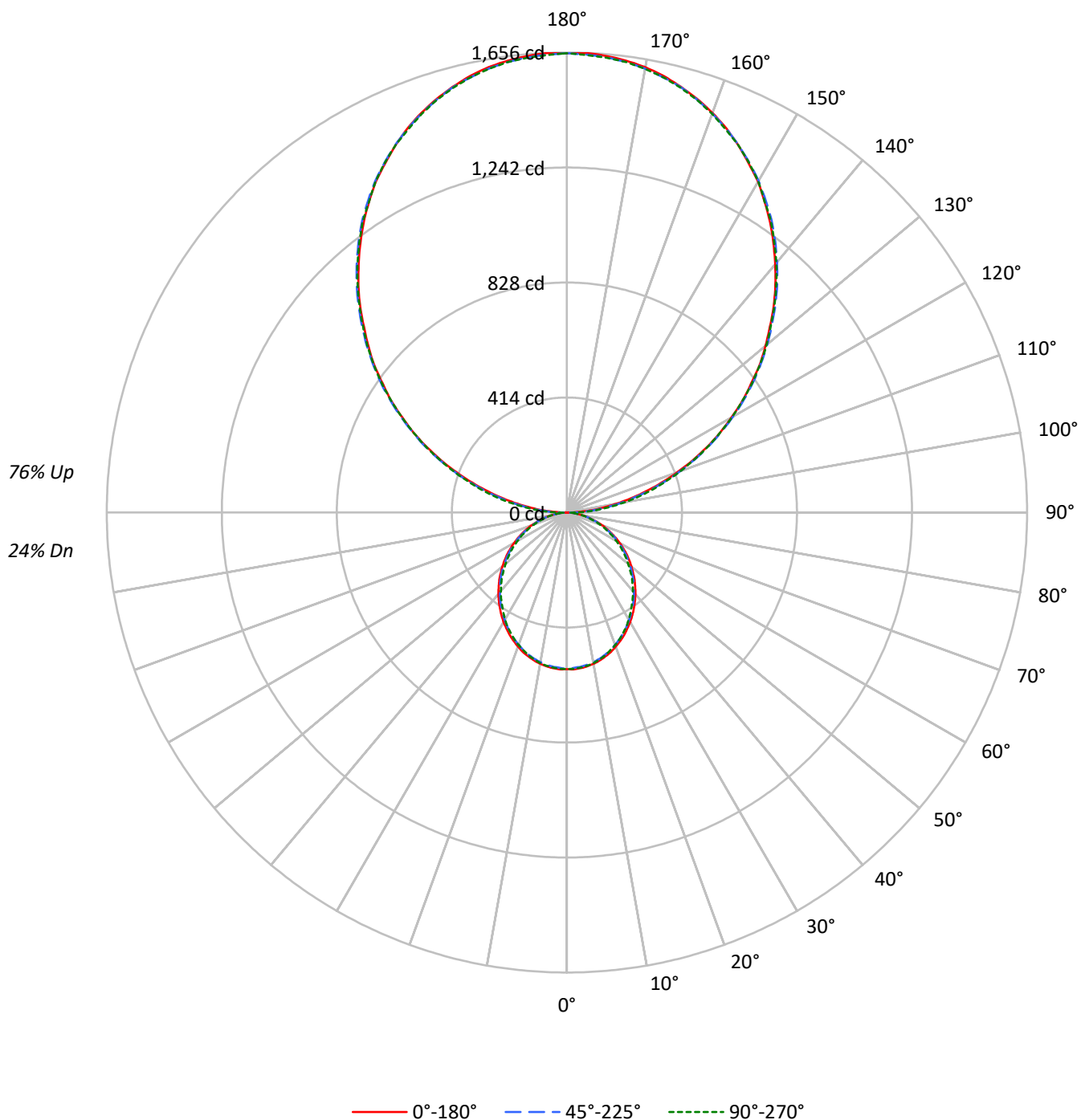
Lumens per Lamp: N/A
Luminaire Lumens: 6084.0 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 55.1
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	30	10
RCR																	
0	101	101	101	101	90	90	90	90	69	69	69	50	50	50	32	32	32
1	92	88	84	81	82	78	75	72	60	58	56	44	42	41	29	28	27
2	84	77	71	66	74	68	63	59	53	49	47	38	36	34	25	24	23
3	76	67	60	55	68	60	54	49	46	42	39	34	31	29	22	21	19
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17
5	64	53	45	39	56	47	41	36	37	32	28	27	24	21	18	16	14
6	59	47	39	34	52	42	36	31	33	28	25	24	21	19	16	14	13
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	15	13	11
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10
9	46	35	28	23	41	31	25	21	25	20	17	18	15	13	12	10	9
10	43	32	25	20	38	29	23	18	23	18	15	17	14	12	11	10	8

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	0.9
10°-20°	150.2	2.5
20°-30°	221.8	3.6
30°-40°	258.8	4.3
40°-50°	259.9	4.3
50°-60°	228.1	3.7
60°-70°	169.9	2.8
70°-80°	97.1	1.6
80°-90°	30.6	0.5
90°-100°	110.0	1.8
100°-110°	326.6	5.4
110°-120°	553.9	9.1
120°-130°	729.2	12.0
130°-140°	817.2	13.4
140°-150°	801.0	13.2
150°-160°	672.8	11.1
160°-170°	447.2	7.4
170°-180°	156.5	2.6
0°-30°	425.2	7.0
0°-40°	684.0	11.2
0°-60°	1172.0	19.3
0°-90°	1469.6	24.2
90°-120°	990.5	16.3
90°-150°	3337.9	54.9
90°-180°	4614.0	75.8
0°-180°	6084.0	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	12	21	27	31	7
95°	84	86	99	108	111	87
105°	293	300	308	315	319	313
115°	555	560	562	561	560	549
125°	809	817	818	816	814	725
135°	1052	1060	1062	1062	1056	811
145°	1275	1280	1284	1284	1280	797
155°	1459	1459	1460	1466	1459	672
165°	1586	1584	1585	1590	1583	448
175°	1650	1644	1644	1652	1643	157
180°	1653	1653	1653	1653	1653	

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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°	1.3	11.6	20.6	27.0	30.9
92.5°	38.6	45.0	56.6	65.6	68.2
95°	83.6	86.2	99.1	108.1	110.7
97.5°	128.7	130.0	148.0	155.7	157.0
100°	180.1	180.1	196.9	208.4	211.0
102.5°	235.5	241.9	248.3	261.2	265.1
105°	293.4	299.8	307.5	315.2	319.1
107.5°	356.4	362.8	369.3	373.1	373.1
110°	422.0	428.5	432.3	436.2	434.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	488.9	491.5	496.7	497.9	495.4
115°	554.6	559.7	562.3	561.0	559.7
117.5°	621.5	622.7	625.3	626.6	621.5
120°	683.2	689.7	690.9	690.9	685.8
122.5°	750.1	751.4	755.3	754.0	750.1
125°	809.3	817.0	818.3	815.7	814.5
127.5°	874.9	878.8	880.1	878.8	876.2
130°	932.8	939.3	941.8	940.6	938.0
132.5°	990.7	1002.3	1001.0	999.7	995.9
135°	1052.5	1060.2	1061.5	1061.5	1056.4
137.5°	1110.4	1118.1	1120.7	1122.0	1115.5
140°	1165.7	1172.2	1176.0	1178.6	1172.2
142.5°	1221.1	1226.2	1231.3	1232.6	1226.2
145°	1275.1	1280.2	1284.1	1284.1	1280.2
147.5°	1325.3	1329.1	1331.7	1335.6	1325.3
150°	1375.5	1374.2	1379.3	1379.3	1376.7
152.5°	1416.6	1419.2	1420.5	1424.3	1419.2
155°	1459.1	1459.1	1460.4	1465.5	1459.1
157.5°	1497.7	1495.1	1496.4	1501.5	1492.5
160°	1531.1	1527.3	1528.6	1533.7	1527.3
162.5°	1560.7	1558.2	1558.2	1564.6	1556.9
165°	1586.5	1583.9	1585.2	1590.3	1582.6
167.5°	1609.6	1604.5	1604.5	1612.2	1604.5
170°	1627.6	1622.5	1622.5	1630.2	1621.2
172.5°	1640.5	1635.4	1635.4	1643.1	1635.4
175°	1649.5	1644.4	1644.4	1652.1	1643.1
177.5°	1655.9	1650.8	1649.5	1657.2	1648.2
180°	1653.4	1653.4	1653.4	1653.4	1653.4

(END OF REPORT)