

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: P1035289

Luminaire Tested: S125DIW-B375D1340UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035289
REPORT IS A COMBINATION OF REPORTS P1003509 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B375D1340UB50-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

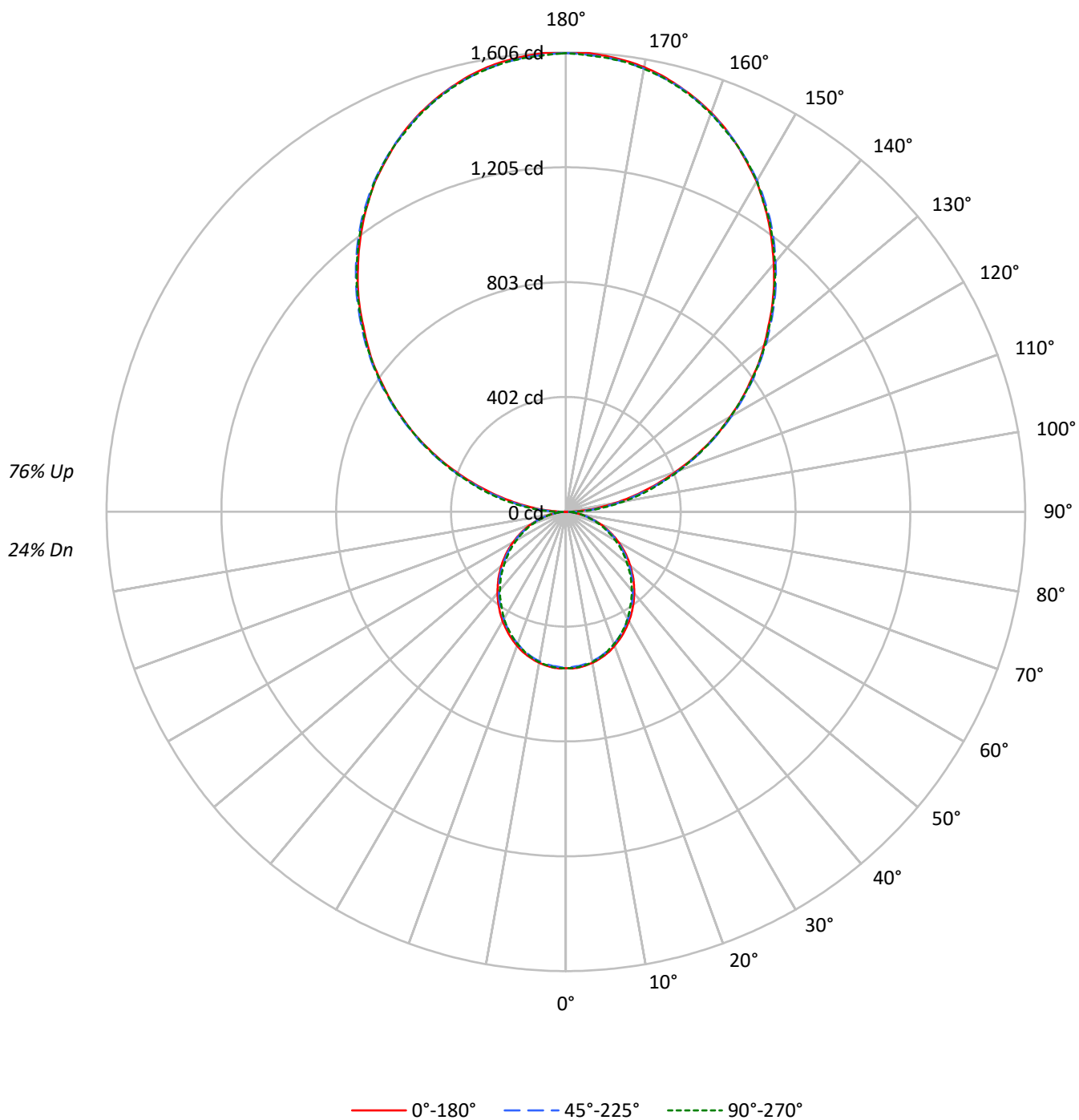
Lumens per Lamp: N/A
Luminaire Lumens: 5901.0 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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°	3503	3503	3503
5°	3503	3422	3428
10°	3474	3343	3333
15°	3428	3249	3221
20°	3367	3141	3091
25°	3300	3022	2953
30°	3221	2898	2808
35°	3136	2769	2645
40°	3047	2632	2500
45°	2952	2498	2346
50°	2847	2346	2166
55°	2743	2180	2001
60°	2619	2004	1809
65°	2471	1800	1611
70°	2321	1566	1382
75°	2067	1289	1117
80°	1761	962	821
85°	1361	569	452

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2952 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	0.9
10°-20°	145.7	2.5
20°-30°	215.1	3.6
30°-40°	251.0	4.3
40°-50°	252.1	4.3
50°-60°	221.3	3.8
60°-70°	164.8	2.8
70°-80°	94.1	1.6
80°-90°	29.7	0.5
90°-100°	106.6	1.8
100°-110°	316.8	5.4
110°-120°	537.3	9.1
120°-130°	707.3	12.0
130°-140°	792.6	13.4
140°-150°	776.9	13.2
150°-160°	652.5	11.1
160°-170°	433.8	7.4
170°-180°	151.8	2.6
0°-30°	412.5	7.0
0°-40°	663.5	11.2
0°-60°	1136.8	19.3
0°-90°	1425.5	24.2
90°-120°	960.7	16.3
90°-150°	3237.4	54.9
90°-180°	4475.0	75.8
0°-180°	5901.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	547	547	547	547	547	
5°	546	545	541	545	544	52
15°	520	519	514	516	516	147
25°	472	470	464	465	464	217
35°	408	406	400	398	394	255
45°	334	332	327	322	320	257
55°	254	253	247	243	240	227
65°	172	171	166	162	160	170
75°	91	90	88	87	85	97
85°	24	24	24	24	23	26
90°	1	11	20	26	30	7
95°	81	84	96	105	107	85
105°	284	291	298	306	310	303
115°	538	543	545	544	543	532
125°	785	792	794	791	790	703
135°	1021	1028	1030	1030	1025	787
145°	1237	1242	1245	1245	1242	773
155°	1415	1415	1416	1421	1415	652
165°	1539	1536	1538	1542	1535	434
175°	1600	1595	1595	1602	1594	152
180°	1604	1604	1604	1604	1604	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	546.7	546.7	546.7	546.7	546.7
2.5°	548.5	547.2	542.8	547.2	546.7
5°	545.9	545.0	540.7	544.6	544.1
7.5°	542.0	541.1	536.3	540.2	539.8
10°	536.3	535.5	530.7	534.2	533.8
12.5°	529.4	527.7	523.4	526.0	526.0
15°	520.3	519.0	514.3	516.5	516.5
17.5°	510.8	508.7	503.9	506.5	504.3
20°	498.3	497.4	491.8	494.8	492.7
22.5°	485.7	484.0	478.8	480.6	479.3
25°	472.3	470.2	464.5	465.4	464.1
27.5°	456.8	455.5	449.8	450.3	449.0
30°	441.6	440.3	433.8	433.0	431.7
32.5°	425.2	423.0	417.4	415.7	413.1
35°	407.9	406.2	400.1	397.9	394.5
37.5°	390.1	388.0	382.4	379.3	377.2
40°	372.0	369.8	363.8	359.9	358.6
42.5°	352.5	350.8	344.7	341.3	339.1
45°	333.9	332.2	327.0	321.8	320.5
47.5°	313.6	314.0	307.5	302.3	299.3
50°	294.1	292.8	287.6	282.0	279.0
52.5°	274.2	273.4	267.7	263.0	259.5
55°	254.3	253.0	247.0	243.1	240.1
57.5°	233.1	232.7	227.5	222.3	221.0
60°	213.2	211.5	206.8	202.4	199.4
62.5°	192.5	191.2	187.3	182.5	180.4
65°	171.7	170.9	166.1	162.2	160.5
67.5°	151.4	149.7	146.2	142.7	141.9
70°	132.4	130.2	126.3	123.7	122.0
72.5°	111.6	110.3	108.1	105.1	103.4
75°	91.3	90.4	88.2	86.9	85.2
77.5°	72.2	71.8	70.5	69.6	68.3
80°	54.5	54.5	53.6	53.2	52.3
82.5°	38.9	38.1	38.1	37.2	37.2
85°	23.8	24.2	24.2	23.8	22.9
87.5°	11.7	11.7	11.2	11.2	10.4
90°	1.2	11.2	20.0	26.2	30.0
92.5°	37.4	43.7	54.9	63.6	66.1
95°	81.1	83.6	96.1	104.8	107.3
97.5°	124.8	126.0	143.5	151.0	152.2
100°	174.7	174.7	190.9	202.2	204.7
102.5°	228.4	234.6	240.9	253.3	257.1
105°	284.5	290.8	298.3	305.7	309.5
107.5°	345.7	351.9	358.2	361.9	361.9
110°	409.3	415.6	419.3	423.0	421.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	474.2	476.7	481.7	483.0	480.5
115°	537.9	542.9	545.3	544.1	542.9
117.5°	602.8	604.0	606.5	607.7	602.8
120°	662.7	668.9	670.1	670.1	665.1
122.5°	727.5	728.8	732.5	731.3	727.5
125°	785.0	792.4	793.7	791.2	789.9
127.5°	848.6	852.3	853.6	852.3	849.8
130°	904.8	911.0	913.5	912.2	909.7
132.5°	960.9	972.1	970.9	969.6	965.9
135°	1020.8	1028.3	1029.5	1029.5	1024.6
137.5°	1077.0	1084.5	1087.0	1088.2	1082.0
140°	1130.6	1136.9	1140.6	1143.1	1136.9
142.5°	1184.3	1189.3	1194.3	1195.5	1189.3
145°	1236.7	1241.7	1245.4	1245.4	1241.7
147.5°	1285.4	1289.1	1291.6	1295.4	1285.4
150°	1334.0	1332.8	1337.8	1337.8	1335.3
152.5°	1374.0	1376.5	1377.7	1381.5	1376.5
155°	1415.2	1415.2	1416.4	1421.4	1415.2
157.5°	1452.6	1450.1	1451.3	1456.3	1447.6
160°	1485.0	1481.3	1482.5	1487.5	1481.3
162.5°	1513.7	1511.2	1511.2	1517.5	1510.0
165°	1538.7	1536.2	1537.5	1542.4	1535.0
167.5°	1561.2	1556.2	1556.2	1563.7	1556.2
170°	1578.6	1573.6	1573.6	1581.1	1572.4
172.5°	1591.1	1586.1	1586.1	1593.6	1586.1
175°	1599.9	1594.9	1594.9	1602.3	1593.6
177.5°	1606.1	1601.1	1599.9	1607.3	1598.6
180°	1603.6	1603.6	1603.6	1603.6	1603.6

(END OF REPORT)