

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: P1035223

Luminaire Tested: S125DIW-B1270D770UB40-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035223
REPORT IS A COMBINATION OF REPORTS P1003364 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1270D770UB40-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

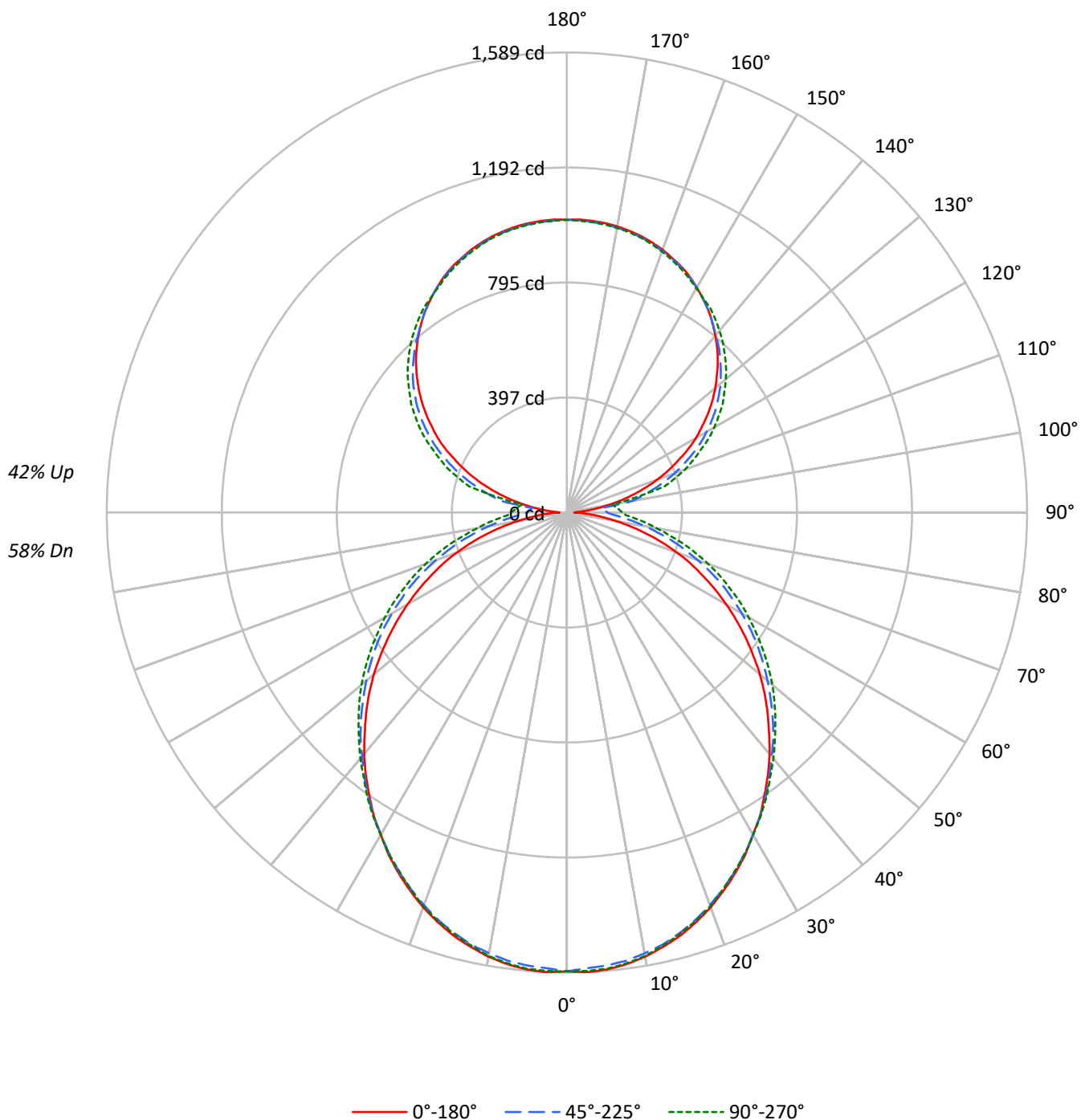
Lumens per Lamp: N/A
Luminaire Lumens: 8016.0 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 84.5
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	109	109	109	109	101	101	101	101	88	88	88	75	75	75	63	63	63
1	99	94	90	86	92	87	84	80	76	73	70	65	62	61	54	53	52
2	89	82	75	69	83	76	70	65	66	61	57	56	53	50	47	45	43
3	81	71	64	57	75	67	60	54	58	52	48	49	45	42	42	39	36
4	74	63	55	48	69	59	51	46	51	45	41	44	39	36	37	34	31
5	68	56	48	41	63	52	45	39	46	40	35	39	35	31	33	30	27
6	63	50	42	36	58	47	40	34	41	35	30	35	31	27	30	26	23
7	58	45	37	31	54	43	35	30	37	31	27	32	27	24	28	24	21
8	54	41	33	28	50	39	31	26	34	28	24	29	25	21	25	21	19
9	50	38	30	25	47	35	28	24	31	25	21	27	22	19	23	20	17
10	47	35	27	22	44	33	26	21	29	23	19	25	20	17	22	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10153	10153	10153
5°	10170	9940	9965
10°	10093	9737	9710
15°	9970	9502	9397
20°	9805	9217	9085
25°	9608	8914	8709
30°	9370	8583	8367
35°	9148	8279	8051
40°	8922	7957	7733
45°	8666	7679	7447
50°	8421	7377	7189
55°	8127	7089	6890
60°	7804	6761	6582
65°	7466	6414	6236
70°	7080	5952	5876
75°	6473	5494	5437
80°	5675	4937	4951
85°	4883	4493	4696

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8666 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.0	1.9
10°-20°	425.7	5.3
20°-30°	633.0	7.9
30°-40°	749.7	9.4
40°-50°	775.0	9.7
50°-60°	714.0	8.9
60°-70°	577.2	7.2
70°-80°	386.2	4.8
80°-90°	201.1	2.5
90°-100°	146.7	1.8
100°-110°	311.0	3.9
110°-120°	466.4	5.8
120°-130°	558.8	7.0
130°-140°	581.0	7.2
140°-150°	535.1	6.7
150°-160°	430.6	5.4
160°-170°	278.5	3.5
170°-180°	96.0	1.2
0°-30°	1208.7	15.1
0°-40°	1958.3	24.4
0°-60°	3447.3	43.0
0°-90°	4611.8	57.5
90°-120°	924.2	11.5
90°-150°	2599.1	32.4
90°-180°	3404.0	42.5
0°-180°	8016.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1585	1585	1585	1585	1585	
5°	1585	1582	1571	1583	1582	150
15°	1513	1515	1504	1513	1507	426
25°	1375	1380	1370	1376	1369	633
35°	1190	1201	1196	1201	1201	745
45°	980	997	1005	1016	1018	756
55°	754	778	803	820	826	673
65°	519	555	592	615	621	515
75°	286	326	376	407	415	303
85°	85	137	191	225	238	89
90°	26	81	139	179	192	19
95°	63	101	125	163	174	68
105°	234	262	309	340	350	248
115°	423	438	479	504	509	419
125°	594	598	629	651	657	531
135°	737	740	749	768	771	568
145°	852	852	852	861	862	533
155°	937	932	934	936	930	432
165°	988	984	985	989	983	279
175°	1011	1006	1007	1013	1006	96
180°	1011	1011	1011	1011	1011	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1584.7	1584.7	1584.7	1584.7	1584.7
2.5°	1589.3	1586.2	1575.3	1586.2	1584.7
5°	1584.7	1581.6	1570.7	1583.1	1581.6
7.5°	1573.8	1572.2	1561.4	1572.2	1570.7
10°	1558.2	1558.2	1545.8	1556.7	1555.1
12.5°	1536.5	1538.1	1528.7	1536.5	1531.8
15°	1513.2	1514.7	1503.9	1513.2	1507.0
17.5°	1483.7	1486.8	1475.9	1483.7	1479.0
20°	1451.1	1454.2	1443.3	1447.9	1447.9
22.5°	1413.8	1420.0	1407.6	1413.8	1409.1
25°	1374.9	1379.6	1370.3	1376.5	1368.7
27.5°	1333.0	1339.2	1328.3	1333.0	1329.9
30°	1284.8	1294.1	1284.8	1287.9	1286.4
32.5°	1241.3	1249.1	1242.9	1246.0	1244.4
35°	1190.0	1200.9	1196.3	1200.9	1200.9
37.5°	1140.3	1149.7	1148.1	1154.3	1152.8
40°	1089.1	1101.5	1099.9	1106.2	1109.3
42.5°	1033.1	1050.2	1054.9	1062.7	1062.7
45°	980.3	997.4	1005.2	1016.0	1017.6
47.5°	925.9	941.5	953.9	969.4	972.5
50°	870.0	887.1	904.2	921.3	925.9
52.5°	811.0	832.7	854.5	873.1	876.2
55°	753.5	778.3	803.2	820.3	826.5
57.5°	694.5	724.0	751.9	770.6	775.2
60°	635.4	666.5	697.6	720.9	725.5
62.5°	577.9	609.0	643.2	669.6	675.8
65°	518.9	554.6	591.9	615.2	621.4
67.5°	464.5	498.7	536.0	564.0	571.7
70°	403.9	439.7	480.1	509.6	518.9
72.5°	344.9	382.2	427.2	459.9	466.1
75°	285.9	326.3	376.0	407.0	414.8
77.5°	228.4	275.0	321.6	355.8	362.0
80°	175.6	222.2	275.0	309.2	315.4
82.5°	127.4	177.1	231.5	264.1	276.5
85°	85.4	136.7	191.1	225.3	237.7
87.5°	54.4	104.1	156.9	192.6	203.5
90°	25.6	81.3	139.4	178.8	192.0
92.5°	36.0	74.3	133.2	171.1	182.7
95°	62.9	101.1	125.4	163.3	174.2
97.5°	98.8	140.6	120.7	154.8	166.4
100°	142.3	177.1	229.8	150.8	157.1
102.5°	186.4	219.0	268.6	301.2	247.5
105°	234.3	262.1	308.7	339.8	350.0
107.5°	283.7	305.5	352.0	383.8	390.1
110°	331.7	350.3	395.3	422.5	434.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	378.1	394.4	437.0	462.0	471.3
115°	423.0	437.6	478.8	503.8	508.6
117.5°	470.2	477.9	519.8	541.7	551.1
120°	515.2	519.0	557.1	582.0	587.5
122.5°	553.3	558.6	593.5	616.9	621.7
125°	594.5	598.2	629.2	651.1	656.7
127.5°	632.7	634.9	660.5	682.3	685.6
130°	668.7	670.8	693.4	712.8	716.9
132.5°	703.1	707.6	720.8	742.6	745.1
135°	736.8	739.8	749.1	767.8	771.1
137.5°	768.3	771.3	776.0	794.6	797.0
140°	797.5	799.0	799.7	818.3	820.0
142.5°	825.2	824.4	825.9	839.9	841.6
145°	852.2	852.1	852.1	860.6	862.3
147.5°	874.6	874.6	875.3	879.2	877.0
150°	897.1	895.6	897.1	898.6	894.2
152.5°	918.8	915.0	916.5	918.0	912.8
155°	936.8	932.3	933.8	936.0	930.0
157.5°	951.0	948.8	948.8	951.0	945.0
160°	966.0	961.5	962.3	965.3	959.3
162.5°	978.0	973.5	974.3	978.7	972.0
165°	988.5	984.0	984.7	989.2	983.2
167.5°	996.7	992.2	993.0	998.2	991.5
170°	1003.5	998.2	999.0	1005.0	998.2
172.5°	1008.0	1002.7	1004.2	1009.5	1002.7
175°	1011.0	1006.5	1007.2	1013.2	1006.5
177.5°	1013.2	1008.7	1009.5	1014.7	1008.7
180°	1011.0	1011.0	1011.0	1011.0	1011.0

(END OF REPORT)