

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: P1035106

Luminaire Tested: S125DIW-B1270D1050UB40-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035106
REPORT IS A COMBINATION OF REPORTS P1003100 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1270D1050UB40-4F0-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

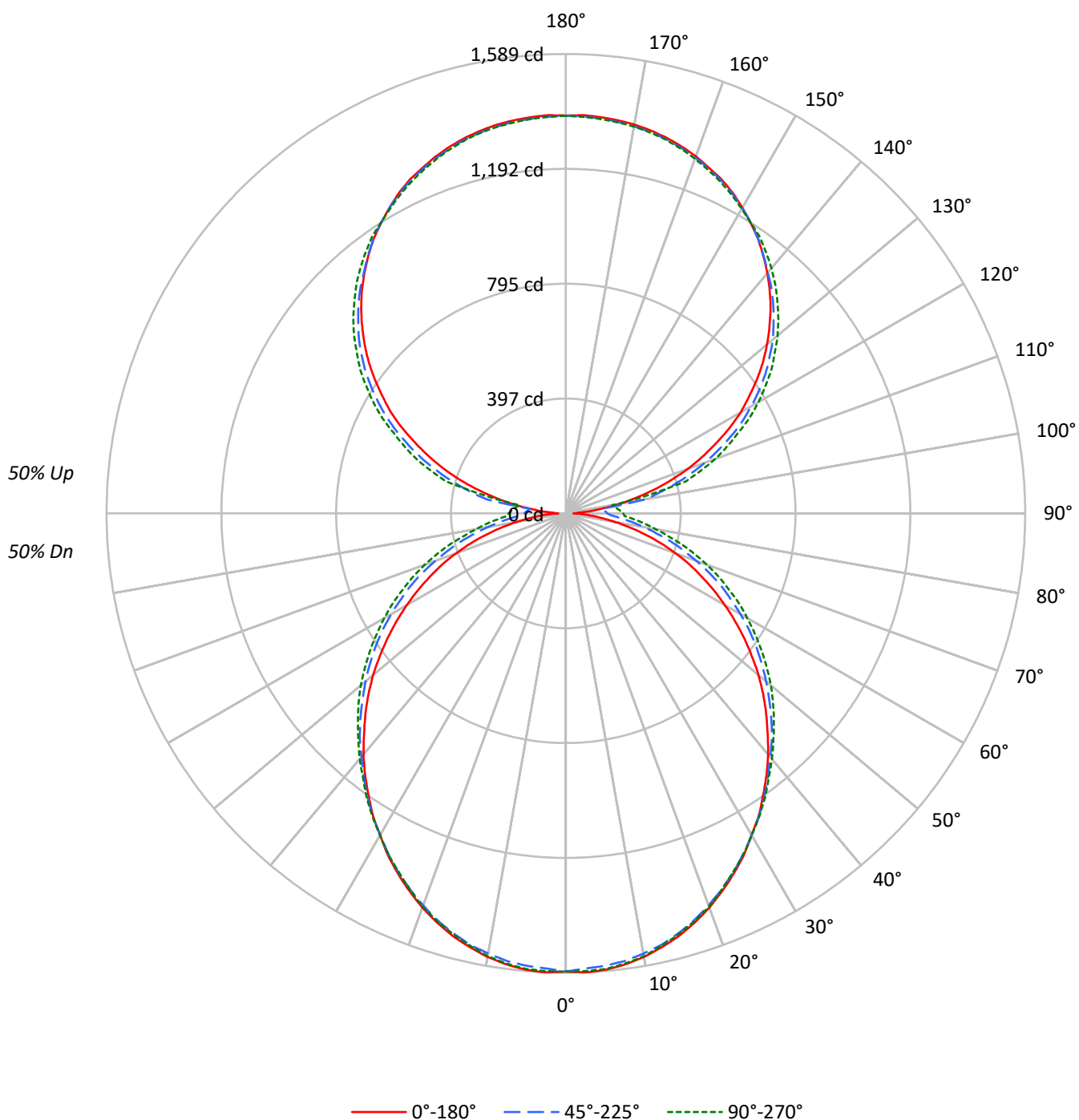
Lumens per Lamp: N/A
Luminaire Lumens: 9137.0 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 92.8
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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57
1	97	92	88	85	89	85	82	79	72	70	67	60	58	56	49	47	46
2	88	80	74	68	81	74	69	64	63	59	55	52	49	46	43	40	38
3	80	70	63	57	74	65	58	53	55	50	46	46	42	39	37	35	32
4	73	62	54	48	67	58	50	45	49	43	39	41	37	33	33	30	28
5	67	55	47	41	62	51	44	38	44	38	33	37	32	29	30	27	24
6	62	49	41	35	57	46	39	33	39	33	29	33	28	25	27	24	21
7	57	45	36	31	53	41	34	29	36	30	25	30	25	22	25	21	19
8	53	40	33	27	49	38	31	26	32	27	23	27	23	20	23	19	17
9	49	37	29	24	45	34	28	23	30	24	20	25	21	18	21	18	15
10	46	34	27	22	42	32	25	20	27	22	18	23	19	16	19	16	14

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	1.6
10°-20°	425.7	4.7
20°-30°	633.0	6.9
30°-40°	749.7	8.2
40°-50°	775.0	8.5
50°-60°	714.0	7.8
60°-70°	577.2	6.3
70°-80°	386.2	4.2
80°-90°	201.7	2.2
90°-100°	159.1	1.7
100°-110°	393.4	4.3
110°-120°	614.6	6.7
120°-130°	749.1	8.2
130°-140°	785.6	8.6
140°-150°	727.2	8.0
150°-160°	586.0	6.4
160°-170°	379.0	4.1
170°-180°	130.7	1.4
0°-30°	1208.7	13.2
0°-40°	1958.3	21.4
0°-60°	3447.3	37.7
0°-90°	4612.4	50.5
90°-120°	1167.1	12.8
90°-150°	3429.0	37.5
90°-180°	4525.0	49.5
0°-180°	9137.0	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	84	144	184	198	20
95°	78	116	130	169	180	87
105°	314	343	389	420	430	332
115°	572	588	630	654	657	567
125°	807	812	843	864	869	720
135°	1002	1006	1015	1033	1035	772
145°	1159	1160	1160	1168	1168	725
155°	1275	1269	1271	1274	1266	587
165°	1345	1339	1340	1346	1338	380
175°	1376	1370	1371	1379	1370	131
180°	1376	1376	1376	1376	1376	

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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°	25.9	83.8	143.7	184.5	198.5
92.5°	41.2	77.0	137.5	176.8	188.6
95°	78.3	115.7	129.7	169.0	179.9
97.5°	127.7	171.1	125.6	160.2	172.1
100°	187.4	223.1	276.8	157.6	162.8
102.5°	248.0	281.7	331.8	365.0	288.6
105°	313.8	342.7	389.3	420.4	430.3
107.5°	381.6	403.4	450.4	482.5	487.8
110°	447.4	466.0	511.5	538.0	549.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	510.6	527.7	570.6	594.5	603.3
115°	572.2	588.2	629.7	653.6	656.8
117.5°	637.0	644.7	687.7	708.0	716.8
120°	698.2	701.8	740.7	765.0	769.2
122.5°	750.7	757.4	792.5	815.3	818.5
125°	806.8	812.4	843.4	864.2	869.0
127.5°	859.3	862.8	888.2	909.4	910.6
130°	908.3	911.8	934.6	953.2	955.9
132.5°	955.6	961.7	974.2	996.0	997.1
135°	1001.5	1006.1	1014.9	1033.0	1034.7
137.5°	1044.3	1049.0	1053.1	1071.7	1072.8
140°	1084.6	1086.7	1087.2	1106.3	1106.4
142.5°	1122.4	1121.8	1123.8	1137.8	1137.9
145°	1159.1	1159.5	1159.5	1168.4	1168.4
147.5°	1190.1	1190.1	1191.1	1195.3	1191.2
150°	1220.7	1218.7	1220.7	1222.8	1216.2
152.5°	1250.3	1245.2	1247.2	1249.3	1242.1
155°	1274.8	1268.7	1270.7	1273.8	1265.6
157.5°	1294.1	1291.1	1291.1	1294.1	1286.0
160°	1314.5	1308.4	1309.4	1313.5	1305.4
162.5°	1330.9	1324.7	1325.8	1331.9	1322.7
165°	1345.1	1339.0	1340.0	1346.2	1338.0
167.5°	1356.4	1350.2	1351.3	1358.4	1349.2
170°	1365.5	1358.4	1359.4	1367.6	1358.4
172.5°	1371.7	1364.5	1366.6	1373.7	1364.5
175°	1375.7	1369.6	1370.6	1378.8	1369.6
177.5°	1378.8	1372.7	1373.7	1380.8	1372.7
180°	1375.7	1375.7	1375.7	1375.7	1375.7

(END OF REPORT)