

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: P1034972

Luminaire Tested: S125DIW-B1090D1340UB27-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034972
REPORT IS A COMBINATION OF REPORTS P1002789 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1090D1340UB27-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

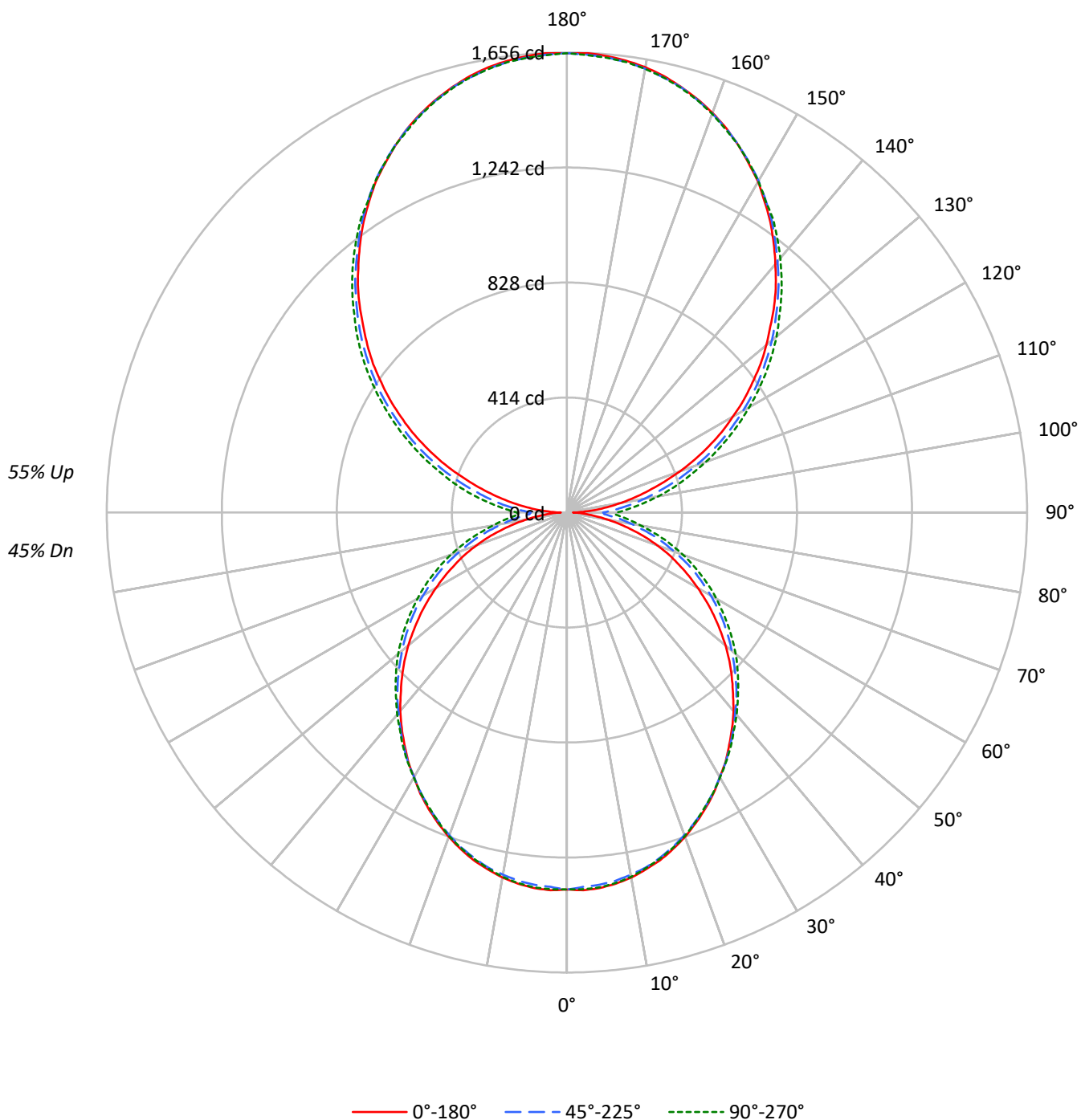
Lumens per Lamp: N/A
Luminaire Lumens: 8821.0 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 88.9
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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	96	91	87	84	88	84	80	77	69	67	65	56	55	53	44	43	42
2	87	79	73	68	79	73	67	63	60	56	53	49	46	44	39	37	35
3	79	70	62	56	72	64	57	52	53	48	44	43	40	37	34	32	29
4	72	61	53	47	66	56	49	44	47	42	37	38	34	31	30	27	25
5	66	55	46	40	60	50	43	38	42	36	32	34	30	27	27	24	22
6	61	49	41	35	56	45	38	32	38	32	28	31	27	23	25	22	19
7	56	44	36	30	51	41	33	28	34	29	24	28	24	21	22	19	17
8	52	40	32	27	48	37	30	25	31	26	22	26	21	18	21	17	15
9	49	36	29	24	44	34	27	22	28	23	19	24	19	16	19	16	14
10	45	33	26	21	42	31	24	20	26	21	17	22	18	15	18	15	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8695	8695	8695
5°	8709	8513	8533
10°	8644	8339	8315
15°	8539	8137	8047
20°	8397	7893	7780
25°	8228	7634	7458
30°	8024	7351	7165
35°	7834	7090	6895
40°	7641	6815	6623
45°	7421	6576	6378
50°	7212	6317	6157
55°	6960	6071	5900
60°	6684	5790	5637
65°	6394	5493	5341
70°	6063	5096	5033
75°	5543	4705	4656
80°	4857	4228	4240
85°	4185	3847	4022

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 7421 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	1.5
10°-20°	364.6	4.1
20°-30°	542.1	6.1
30°-40°	642.0	7.3
40°-50°	663.7	7.5
50°-60°	611.4	6.9
60°-70°	494.3	5.6
70°-80°	330.7	3.7
80°-90°	173.5	2.0
90°-100°	206.2	2.3
100°-110°	397.6	4.5
110°-120°	601.5	6.8
120°-130°	756.1	8.6
130°-140°	828.9	9.4
140°-150°	803.3	9.1
150°-160°	672.8	7.6
160°-170°	447.2	5.1
170°-180°	156.5	1.8
0°-30°	1035.1	11.7
0°-40°	1677.1	19.0
0°-60°	2952.3	33.5
0°-90°	3950.8	44.8
90°-120°	1205.3	13.7
90°-150°	3593.7	40.7
90°-180°	4870.0	55.2
0°-180°	8821.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1357	1357	1357	1357	1357	
5°	1357	1354	1345	1356	1354	129
15°	1296	1297	1288	1296	1291	365
25°	1178	1182	1174	1179	1172	542
35°	1019	1028	1024	1028	1028	638
45°	840	854	861	870	872	648
55°	645	667	688	702	708	577
65°	444	475	507	527	532	441
75°	245	279	322	349	355	259
85°	73	117	164	193	204	76
90°	23	76	130	167	180	20
95°	101	138	196	234	246	101
105°	305	333	381	415	428	326
115°	563	577	614	637	644	557
125°	815	821	849	868	873	730
135°	1055	1062	1072	1089	1091	813
145°	1276	1280	1284	1291	1292	798
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°	1357.1	1357.1	1357.1	1357.1	1357.1
2.5°	1361.1	1358.4	1349.1	1358.4	1357.1
5°	1357.1	1354.4	1345.1	1355.8	1354.4
7.5°	1347.8	1346.4	1337.1	1346.4	1345.1
10°	1334.5	1334.5	1323.8	1333.1	1331.8
12.5°	1315.8	1317.2	1309.2	1315.8	1311.8
15°	1295.9	1297.2	1287.9	1295.9	1290.6
17.5°	1270.6	1273.3	1263.9	1270.6	1266.6
20°	1242.7	1245.3	1236.0	1240.0	1240.0
22.5°	1210.7	1216.1	1205.4	1210.7	1206.7
25°	1177.5	1181.5	1173.5	1178.8	1172.1
27.5°	1141.5	1146.9	1137.6	1141.5	1138.9
30°	1100.3	1108.3	1100.3	1103.0	1101.6
32.5°	1063.0	1069.7	1064.4	1067.0	1065.7
35°	1019.1	1028.5	1024.5	1028.5	1028.5
37.5°	976.6	984.5	983.2	988.5	987.2
40°	932.7	943.3	942.0	947.3	950.0
42.5°	884.8	899.4	903.4	910.0	910.0
45°	839.5	854.2	860.8	870.1	871.5
47.5°	793.0	806.3	816.9	830.2	832.9
50°	745.1	759.7	774.3	789.0	793.0
52.5°	694.5	713.1	731.8	747.7	750.4
55°	645.3	666.6	687.9	702.5	707.8
57.5°	594.7	620.0	643.9	659.9	663.9
60°	544.2	570.8	597.4	617.3	621.3
62.5°	494.9	521.5	550.8	573.4	578.8
65°	444.4	475.0	506.9	526.9	532.2
67.5°	397.8	427.1	459.0	483.0	489.6
70°	345.9	376.5	411.1	436.4	444.4
72.5°	295.4	327.3	365.9	393.8	399.1
75°	244.8	279.4	322.0	348.6	355.2
77.5°	195.6	235.5	275.4	304.7	310.0
80°	150.3	190.3	235.5	264.8	270.1
82.5°	109.1	151.7	198.2	226.2	236.8
85°	73.2	117.1	163.6	192.9	203.6
87.5°	46.6	89.1	134.4	165.0	174.3
90°	22.6	75.5	129.7	166.7	179.9
92.5°	57.2	102.2	160.4	198.6	210.6
95°	100.9	138.1	196.2	234.5	246.4
97.5°	144.7	177.9	239.8	275.4	286.1
100°	194.7	222.7	282.1	321.5	332.1
102.5°	248.8	280.5	328.1	367.6	379.5
105°	305.4	333.1	380.7	415.0	428.2
107.5°	367.0	392.1	437.2	467.6	475.5
110°	431.3	453.8	494.8	524.0	532.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	498.2	512.8	553.9	579.1	585.9
115°	562.6	577.0	614.2	636.8	643.5
117.5°	628.2	636.0	671.9	695.8	700.0
120°	689.9	700.3	732.1	754.8	757.6
122.5°	755.4	758.1	791.2	811.2	815.3
125°	814.6	821.0	848.9	867.6	873.0
127.5°	878.9	881.5	905.4	924.0	929.4
130°	936.8	942.0	963.1	980.5	984.6
132.5°	993.4	1005.0	1017.0	1034.3	1035.8
135°	1055.2	1061.5	1072.1	1089.4	1091.0
137.5°	1113.1	1119.4	1127.4	1144.6	1143.4
140°	1167.0	1173.5	1178.7	1195.9	1194.8
142.5°	1222.4	1226.2	1231.3	1244.6	1243.5
145°	1276.4	1280.2	1284.1	1290.8	1292.2
147.5°	1325.3	1329.1	1331.7	1338.3	1330.6
150°	1375.5	1374.2	1379.3	1379.3	1378.0
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)