

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: P1035696

Luminaire Tested: S125RDIW-B1090D1340UB27-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035696
REPORT IS A COMBINATION OF REPORTS P1005966 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B1090D1340UB27-4F0-XX-W2A-F
Description: Define 5 Regressed Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

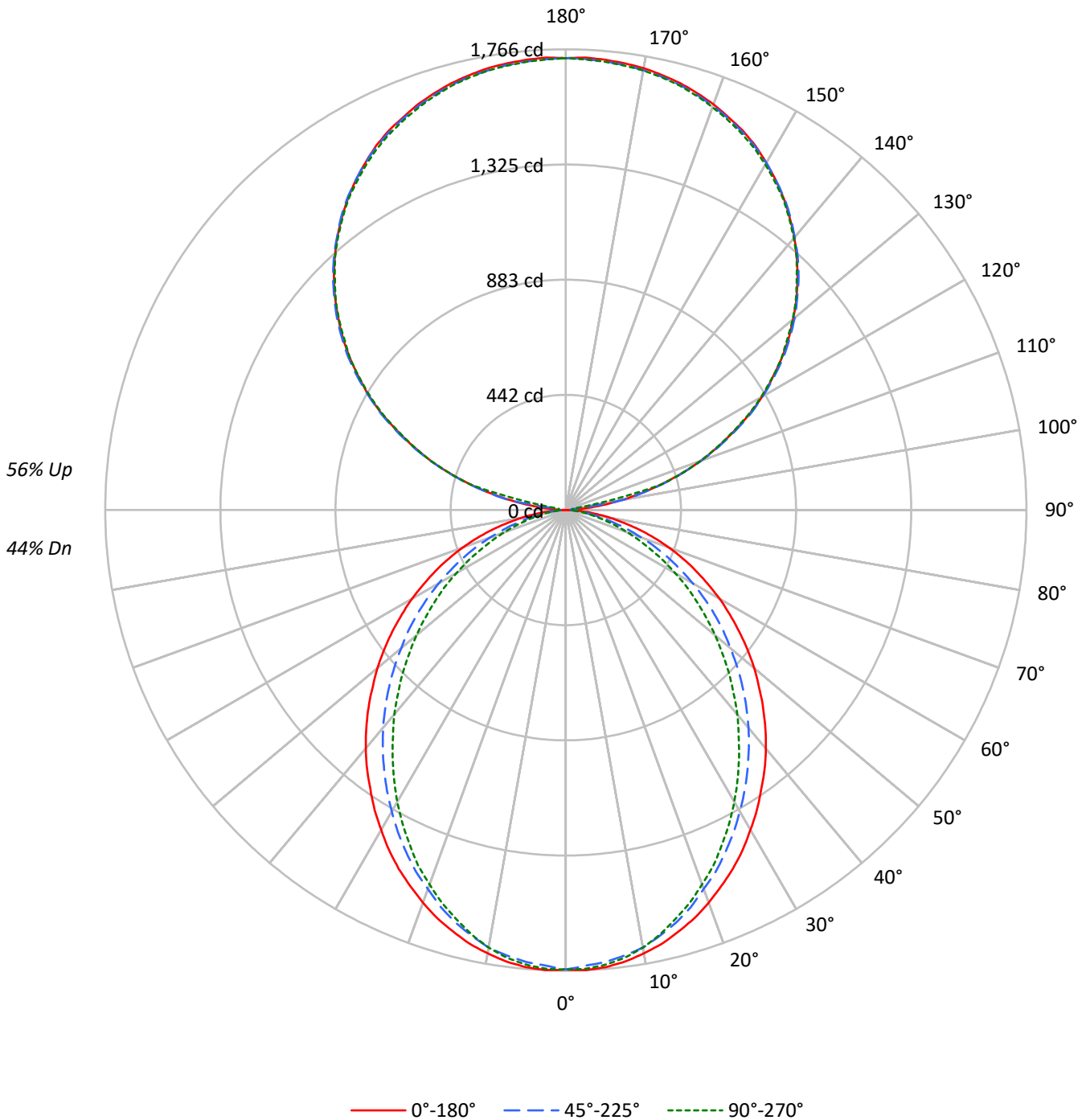
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9486.0 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
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		0	
RW	70	50	30	10	70	50	30	10	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	44		
1	97	92	89	85	88	85	82	79	70	68	66	57	56	54	45	44	43	37		
2	88	81	75	70	80	74	69	65	62	58	55	50	48	46	40	38	37	32		
3	80	71	64	58	73	65	59	54	55	50	46	45	41	39	35	33	31	27		
4	74	63	55	49	67	58	51	46	49	44	40	40	36	33	32	29	27	23		
5	68	56	48	42	62	52	45	40	44	38	34	36	32	29	29	26	24	20		
6	62	50	43	37	57	47	40	34	39	34	30	32	28	25	26	23	21	18		
7	58	46	38	32	53	42	35	30	36	30	26	30	25	22	24	21	19	16		
8	53	41	34	29	49	38	32	27	32	27	23	27	23	20	22	19	17	14		
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	20	17	15	13		
10	46	35	28	23	43	32	26	21	27	22	19	23	19	16	19	16	14	12		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11287	11287	11287
5°	11288	11005	11023
10°	11178	10728	10633
15°	11019	10340	10121
20°	10824	9873	9584
25°	10599	9417	9008
30°	10325	8915	8403
35°	10044	8406	7760
40°	9777	7883	7133
45°	9456	7319	6475
50°	9130	6720	5806
55°	8753	6129	5113
60°	8367	5454	4394
65°	7907	4700	3619
70°	7369	3827	2848
75°	6627	2877	2075
80°	5591	1864	1399
85°	4185	1002	788

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9456 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.8	1.7
10°-20°	463.3	4.9
20°-30°	671.8	7.1
30°-40°	765.4	8.1
40°-50°	746.0	7.9
50°-60°	627.8	6.6
60°-70°	440.0	4.6
70°-80°	225.6	2.4
80°-90°	58.8	0.6
90°-100°	58.8	0.6
100°-110°	391.0	4.1
110°-120°	704.1	7.4
120°-130°	903.7	9.5
130°-140°	972.0	10.2
140°-150°	912.2	9.6
150°-160°	737.9	7.8
160°-170°	477.2	5.0
170°-180°	164.6	1.7
0°-30°	1300.9	13.7
0°-40°	2066.3	21.8
0°-60°	3440.2	36.3
0°-90°	4164.6	43.9
90°-120°	1153.8	12.2
90°-150°	3941.7	41.6
90°-180°	5321.0	56.1
0°-180°	9486.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1762	1762	1762	1762	1762	
5°	1759	1754	1739	1752	1750	167
15°	1672	1664	1636	1635	1623	472
25°	1517	1497	1448	1430	1416	698
35°	1307	1275	1215	1176	1158	818
45°	1070	1031	958	905	885	825
55°	812	769	694	635	613	726
65°	550	504	434	380	361	544
75°	293	253	197	168	158	309
85°	73	49	43	41	40	80
90°	1	12	20	27	31	8
95°	73	69	20	27	27	90
105°	378	383	383	383	381	400
115°	709	715	717	711	704	703
125°	1008	1017	1017	1012	1008	900
135°	1257	1265	1262	1260	1252	969
145°	1458	1460	1460	1461	1454	912
155°	1605	1598	1600	1604	1594	740
165°	1694	1686	1687	1695	1685	478
175°	1732	1725	1726	1736	1725	165
180°	1732	1732	1732	1732	1732	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1761.6	1761.6	1761.6	1761.6	1761.6
2.5°	1765.6	1761.6	1748.3	1761.6	1760.3
5°	1758.9	1753.6	1739.0	1752.3	1749.6
7.5°	1745.6	1740.3	1723.0	1733.6	1731.0
10°	1725.7	1721.7	1703.0	1707.0	1703.0
12.5°	1703.0	1697.7	1671.1	1673.8	1667.1
15°	1672.4	1664.5	1636.5	1635.2	1623.2
17.5°	1640.5	1628.5	1595.3	1588.6	1579.3
20°	1601.9	1588.6	1546.0	1539.4	1527.4
22.5°	1559.3	1546.0	1500.8	1486.2	1476.9
25°	1516.8	1496.8	1447.6	1430.3	1415.7
27.5°	1468.9	1444.9	1393.0	1370.4	1355.8
30°	1415.7	1390.4	1334.5	1303.9	1291.9
32.5°	1363.8	1333.2	1276.0	1241.4	1225.4
35°	1306.6	1274.6	1214.7	1176.2	1157.5
37.5°	1252.0	1213.4	1152.2	1107.0	1088.4
40°	1193.5	1153.5	1089.7	1039.1	1023.2
42.5°	1132.3	1091.0	1024.5	976.6	951.3
45°	1069.7	1031.1	958.0	904.7	884.8
47.5°	1004.5	964.6	891.4	836.9	814.3
50°	943.3	899.4	823.6	767.7	747.7
52.5°	876.8	831.6	761.0	699.8	679.9
55°	811.6	769.0	694.5	634.6	613.4
57.5°	745.1	699.8	628.0	569.5	550.8
60°	681.2	634.6	562.8	504.3	484.3
62.5°	613.4	569.5	496.3	443.1	423.1
65°	549.5	504.3	433.7	380.5	360.6
67.5°	485.6	440.4	372.5	322.0	306.0
70°	420.4	375.2	308.7	267.4	251.5
72.5°	356.6	312.7	251.5	214.2	204.9
75°	292.7	252.8	196.9	167.6	158.3
77.5°	227.5	195.6	149.0	126.4	118.4
80°	173.0	141.0	103.8	91.8	89.1
82.5°	119.7	91.8	69.2	65.2	63.9
85°	73.2	49.2	42.6	41.2	39.9
87.5°	30.6	21.3	20.0	20.0	18.6
90°	1.3	11.6	20.5	27.0	30.8
92.5°	24.4	12.8	20.5	27.0	28.3
95°	73.2	69.3	20.5	27.0	27.0
97.5°	137.4	145.1	23.1	25.7	27.0
100°	214.5	218.3	223.4	32.1	27.0
102.5°	292.8	297.9	300.5	303.1	195.2
105°	377.5	382.7	382.7	382.7	381.4
107.5°	464.9	464.9	467.4	468.7	463.6
110°	549.6	549.6	552.2	548.3	549.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	629.2	633.1	634.4	629.2	626.7
115°	708.9	715.3	716.6	711.4	703.7
117.5°	792.3	792.3	797.5	789.8	787.2
120°	869.4	868.1	872.0	869.4	863.0
122.5°	937.4	943.9	945.2	942.6	934.9
125°	1008.1	1017.1	1017.1	1011.9	1008.1
127.5°	1076.1	1082.6	1081.3	1078.7	1068.4
130°	1137.8	1144.2	1145.5	1141.6	1135.2
132.5°	1199.4	1207.1	1203.3	1203.3	1196.9
135°	1257.2	1264.9	1262.3	1259.8	1252.1
137.5°	1311.1	1318.9	1316.3	1316.3	1309.9
140°	1363.8	1366.4	1365.1	1367.6	1359.9
142.5°	1411.3	1412.6	1415.2	1415.2	1407.5
145°	1457.5	1460.1	1460.1	1461.4	1453.7
147.5°	1498.6	1498.6	1499.9	1501.2	1492.2
150°	1537.2	1534.6	1537.2	1539.7	1529.5
152.5°	1574.4	1568.0	1570.5	1573.1	1564.1
155°	1605.2	1597.5	1600.1	1603.9	1593.7
157.5°	1629.6	1625.8	1625.8	1629.6	1619.3
160°	1655.3	1647.6	1648.9	1654.0	1643.7
162.5°	1675.9	1668.1	1669.4	1677.1	1665.6
165°	1693.8	1686.1	1687.4	1695.1	1684.8
167.5°	1708.0	1700.3	1701.5	1710.5	1699.0
170°	1719.5	1710.5	1711.8	1722.1	1710.5
172.5°	1727.2	1718.2	1720.8	1729.8	1718.2
175°	1732.4	1724.7	1725.9	1736.2	1724.7
177.5°	1736.2	1728.5	1729.8	1738.8	1728.5
180°	1732.4	1732.4	1732.4	1732.4	1732.4

(END OF REPORT)