

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: NEO-RAY

Report Number: P199547

Luminaire Tested: **S125-DIW-U2-2-40-0048-1D-UDD-1-5-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199547
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P27900 P27900)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125-DIW-U2-2-40-0048-1D-UDD-1-5-W
Description: DEFINE 5-INCH DIRECT/INDIRECT WALL LED LUMINAIRE
UPLIGHT LL2-4000K, SATIN WHITE DIFFUSER
DOWNLIGHT LL2-4000K, SATIN WHITE DIFFUSER
Light Source: -
757G
Ballast/Driver: ELECTRONIC DRIVERS

Summary

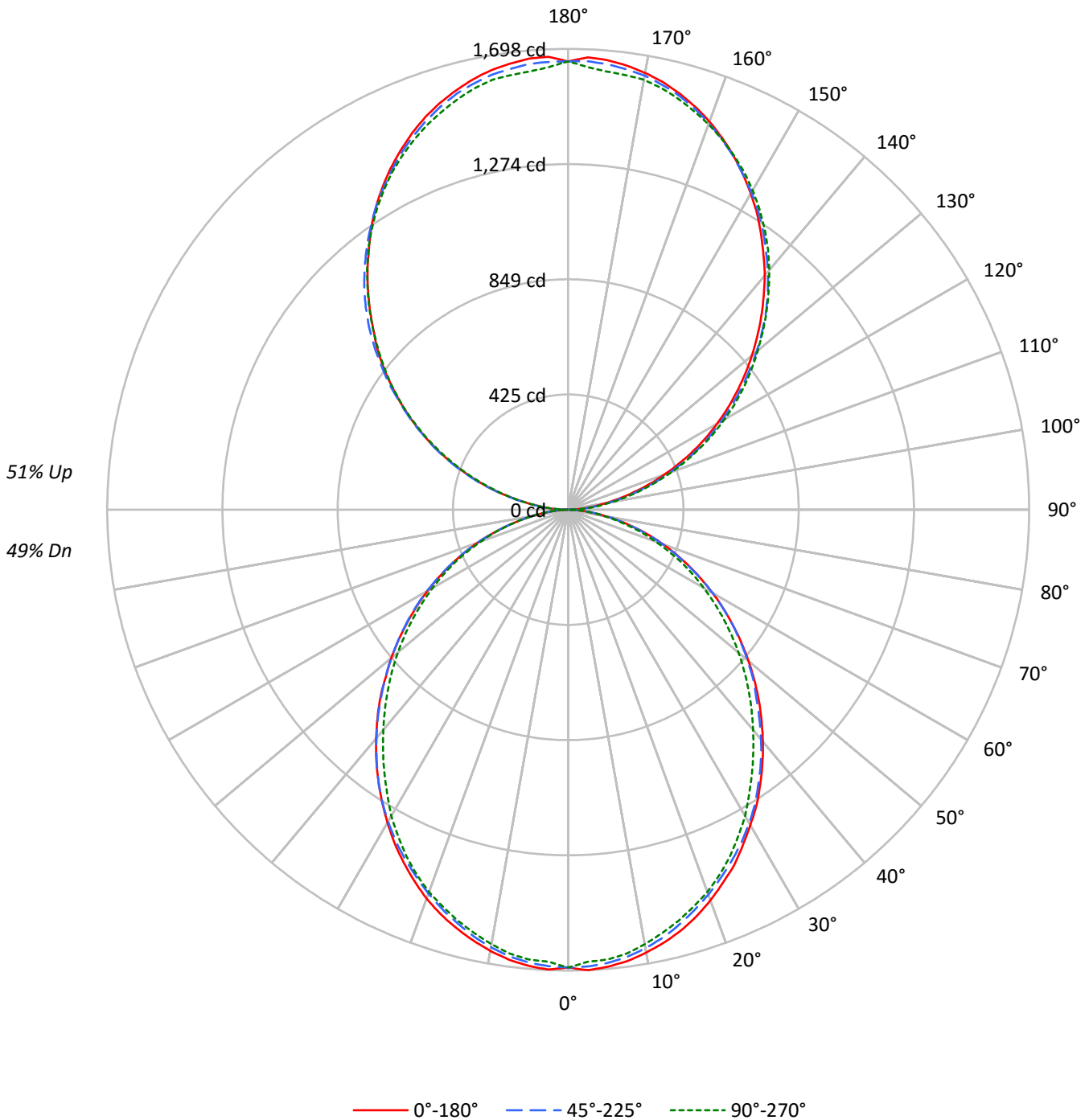
Lumens per Lamp: N/A
Luminaire Lumens: 8662.1 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4.08' x H: 0.38')
CIE Type: General Diffuse

Input Watts (W): 80.5
Input Voltage (V): NR
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: 25 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	0
RCR																		
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	93	89	86	90	86	83	80	73	70	68	60	58	57	49	48	46	41
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35
3	81	72	64	59	74	66	60	55	56	51	47	47	43	40	38	36	33	29
4	74	63	56	50	68	59	52	47	50	45	40	42	38	35	34	31	29	25
5	68	57	48	43	62	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	30	36	31	27	31	26	23	25	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	31	25	46	35	29	24	31	25	21	26	22	19	22	18	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	10671	10671	10671
5°	10646	9796	10626
10°	10474	9014	10435
15°	10261	8274	10195
20°	9980	7601	9933
25°	9681	6929	9598
30°	9310	6262	9238
35°	8952	5595	8847
40°	8556	4983	8438
45°	8138	4424	8019
50°	7692	3887	7546
55°	7217	3363	7046
60°	6705	2848	6525
65°	6146	2352	5926
70°	5489	1825	5230
75°	4604	1297	4285
80°	3488	807	3191
85°	2082	352	1827



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.6	1.8
10°-20°	445.3	5.1
20°-30°	654.2	7.6
30°-40°	755.5	8.7
40°-50°	748.9	8.6
50°-60°	649.5	7.5
60°-70°	474.4	5.5
70°-80°	259.3	3.0
80°-90°	67.4	0.8
90°-100°	82.0	0.9
100°-110°	295.8	3.4
110°-120°	526.3	6.1
120°-130°	701.8	8.1
130°-140°	793.9	9.2
140°-150°	784.3	9.1
150°-160°	664.1	7.7
160°-170°	444.7	5.1
170°-180°	156.1	1.8
0°-30°	1258.0	14.5
0°-40°	2013.5	23.2
0°-60°	3412.0	39.4
0°-90°	4213.1	48.6
90°-120°	904.0	10.4
90°-150°	3184.0	36.8
90°-180°	4449.0	51.4
0°-180°	8662.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1687	1687	1687	1687	1687	
5°	1690	1676	1664	1674	1687	160
15°	1605	1582	1568	1577	1595	452
25°	1446	1427	1409	1420	1434	665
35°	1234	1223	1181	1219	1219	771
45°	993	980	939	974	979	766
55°	740	739	697	726	723	662
65°	491	487	460	476	474	487
75°	253	251	231	236	235	269
85°	59	62	55	55	52	66
90°	2	4	2	3	2	7
95°	57	67	74	78	72	64
105°	251	270	281	291	286	268
115°	505	525	534	545	542	499
125°	759	777	791	802	793	679
135°	1005	1030	1033	1054	1031	776
145°	1239	1252	1261	1269	1266	775
155°	1440	1438	1442	1451	1461	663
165°	1587	1579	1567	1587	1599	447
175°	1663	1648	1621	1648	1668	158
180°	1652	1652	1652	1652	1652	



TEST NUMBER: P199547

CATALOG NUMBER: S125-DIW-U2-2-40-0048-1D-UDD-1-5-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1686.7	1686.7	1686.7	1686.7	1686.7	1686.7	1686.7	1686.7	1686.7
2.5°	1698.1	1680.6	1684.7	1681.6	1667.1	1679.5	1683.6	1677.5	1696.0
5°	1689.8	1672.3	1676.4	1672.3	1664.0	1670.2	1674.4	1668.2	1686.7
7.5°	1677.5	1658.9	1662.0	1657.8	1649.6	1654.7	1659.9	1653.7	1672.3
10°	1656.8	1639.3	1640.3	1635.1	1625.8	1632.0	1637.2	1632.0	1650.6
12.5°	1633.1	1614.5	1614.5	1606.2	1598.0	1603.1	1610.4	1606.2	1624.8
15°	1605.2	1585.6	1582.5	1577.3	1568.0	1574.2	1577.3	1576.3	1594.9
17.5°	1571.1	1550.5	1546.4	1545.3	1534.0	1542.2	1543.3	1540.2	1562.9
20°	1531.9	1512.3	1509.2	1508.2	1498.9	1505.1	1505.1	1500.9	1524.7
22.5°	1488.5	1470.0	1468.9	1466.9	1456.5	1463.8	1463.8	1457.6	1481.3
25°	1446.2	1423.5	1426.6	1421.4	1409.1	1419.4	1420.4	1410.1	1433.8
27.5°	1393.6	1376.0	1382.2	1372.9	1356.4	1369.8	1376.0	1360.5	1385.3
30°	1342.0	1323.4	1333.7	1317.2	1302.7	1315.1	1326.5	1306.9	1331.6
32.5°	1291.4	1269.7	1282.1	1261.4	1240.8	1256.3	1274.9	1256.3	1275.9
35°	1233.6	1216.0	1223.3	1201.6	1180.9	1196.4	1219.1	1201.6	1219.1
37.5°	1175.8	1161.3	1166.5	1140.7	1120.0	1135.5	1159.2	1145.8	1161.3
40°	1115.9	1105.6	1105.6	1079.8	1059.1	1073.6	1098.3	1091.1	1100.4
42.5°	1054.0	1049.8	1041.6	1018.9	999.2	1013.7	1037.4	1035.4	1039.5
45°	993.1	993.1	979.6	955.9	939.4	952.8	974.5	979.6	978.6
47.5°	930.1	935.2	923.9	898.1	879.5	892.9	912.5	921.8	911.5
50°	867.1	876.4	862.0	839.2	818.6	833.0	849.6	862.0	850.6
52.5°	804.1	815.5	800.0	778.3	757.7	771.1	787.6	802.1	787.6
55°	740.1	753.6	739.1	716.4	696.8	709.2	725.7	740.1	722.6
57.5°	677.2	689.6	677.2	654.5	635.9	647.2	664.8	676.1	660.7
60°	614.2	627.6	615.2	593.6	576.0	585.3	601.8	613.2	597.7
62.5°	552.3	563.6	550.2	532.7	519.2	523.4	538.8	552.3	535.8
65°	491.4	501.7	487.2	471.8	460.4	462.5	475.9	483.1	473.8
67.5°	431.5	442.8	427.4	412.9	399.5	403.6	415.0	425.3	413.9
70°	371.6	383.0	366.5	354.1	342.7	344.8	354.1	365.4	354.1
72.5°	312.8	322.1	310.7	296.3	288.0	290.1	295.2	305.6	294.2
75°	252.9	263.2	250.8	239.5	231.2	233.3	236.4	244.7	235.4
77.5°	197.2	204.4	196.1	186.8	181.7	182.7	183.7	189.9	181.7
80°	145.6	151.7	146.6	139.4	135.2	135.2	135.2	140.4	133.2
82.5°	99.1	105.3	101.2	96.0	92.9	89.8	91.9	96.0	89.8
85°	58.8	64.0	61.9	56.8	54.7	52.6	54.7	56.8	51.6
87.5°	26.8	31.0	27.9	22.7	20.6	18.6	18.6	21.7	17.5
90°	2.1	5.2	4.1	3.1	2.1	2.1	3.1	4.1	2.1
92.5°	19.6	26.8	26.8	23.7	28.9	33.0	40.3	40.3	35.1
95°	56.8	64.0	67.1	69.2	74.3	76.4	78.5	78.5	72.3
97.5°	97.0	107.4	109.4	112.5	118.7	119.7	122.8	123.9	116.6
100°	142.5	154.8	156.9	161.0	168.3	169.3	173.4	175.5	168.3
102.5°	194.1	208.5	211.6	214.7	219.9	224.0	229.2	232.3	224.0
105°	250.8	268.4	270.5	274.6	280.8	284.9	291.1	293.2	285.9
107.5°	313.8	327.2	333.4	335.5	341.7	345.8	354.1	355.1	348.9
110°	375.7	388.1	396.4	398.5	404.7	408.8	417.0	417.0	411.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	439.8	453.2	460.4	462.5	469.7	472.8	481.0	482.1	476.9
115°	504.8	517.2	525.4	527.5	533.7	537.8	545.0	547.1	541.9
117.5°	569.8	582.2	588.4	592.5	599.8	602.9	607.0	610.1	604.9
120°	632.8	645.2	650.3	656.5	663.8	666.9	673.0	671.0	667.9
122.5°	696.8	708.1	713.3	720.5	728.8	729.8	734.0	732.9	730.9
125°	758.7	768.0	777.3	781.4	790.7	790.7	802.1	792.8	792.8
127.5°	821.7	828.9	841.3	843.4	851.6	852.7	866.1	852.7	855.8
130°	883.6	888.8	905.3	905.3	911.5	913.6	931.1	912.5	916.7
132.5°	944.5	948.7	968.3	966.2	972.4	974.5	994.1	972.4	971.4
135°	1005.4	1007.5	1030.2	1027.1	1033.3	1036.4	1054.0	1030.2	1031.2
137.5°	1065.3	1064.3	1088.0	1087.0	1093.2	1095.2	1111.8	1083.9	1091.1
140°	1126.2	1119.0	1143.8	1145.8	1152.0	1154.1	1165.4	1143.8	1150.0
142.5°	1182.0	1178.9	1197.4	1200.5	1208.8	1208.8	1219.1	1197.4	1205.7
145°	1238.7	1231.5	1252.2	1252.2	1261.4	1260.4	1268.7	1254.2	1265.6
147.5°	1294.5	1285.2	1302.7	1303.8	1312.0	1312.0	1319.3	1304.8	1319.3
150°	1345.1	1336.8	1349.2	1350.2	1358.5	1357.4	1364.7	1357.4	1369.8
152.5°	1393.6	1385.3	1393.6	1392.5	1402.9	1399.8	1409.1	1402.9	1417.3
155°	1440.0	1430.7	1438.0	1433.8	1442.1	1441.1	1451.4	1449.3	1460.7
157.5°	1482.4	1472.0	1478.2	1473.1	1478.2	1479.3	1490.6	1489.6	1502.0
160°	1521.6	1511.3	1515.4	1506.1	1511.3	1512.3	1526.7	1526.7	1539.1
162.5°	1556.7	1545.3	1549.5	1535.0	1540.2	1540.2	1558.7	1558.7	1571.1
165°	1586.6	1576.3	1579.4	1561.8	1567.0	1568.0	1586.6	1587.6	1599.0
167.5°	1613.5	1602.1	1603.1	1586.6	1590.7	1591.8	1608.3	1610.4	1623.8
170°	1634.1	1623.8	1623.8	1605.2	1608.3	1609.3	1626.9	1630.0	1643.4
172.5°	1650.6	1639.3	1637.2	1617.6	1615.5	1620.7	1638.2	1644.4	1656.8
175°	1663.0	1650.6	1647.5	1627.9	1620.7	1631.0	1648.5	1653.7	1668.2
177.5°	1668.2	1655.8	1653.7	1633.1	1632.0	1635.1	1651.6	1657.8	1670.2
180°	1651.6	1651.6	1651.6	1651.6	1651.6	1651.6	1651.6	1651.6	1651.6

(END OF REPORT)