

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: P199543

Luminaire Tested: **S125-DIW-U2-2-30-0048-1D-UDD-1-5-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199543
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-U2-2-30-0048-1D-UDD-1-5-W
Description: DEFINE 5-INCH DIRECT/INDIRECT WALL LED LUMINAIRE
UPLIGHT LL2-3000K, SATIN WHITE DIFFUSER
DOWNLIGHT LL2-3000K, SATIN WHITE DIFFUSER
Light Source: -
757G
Ballast/Driver: ELECTRONIC DRIVERS

Summary

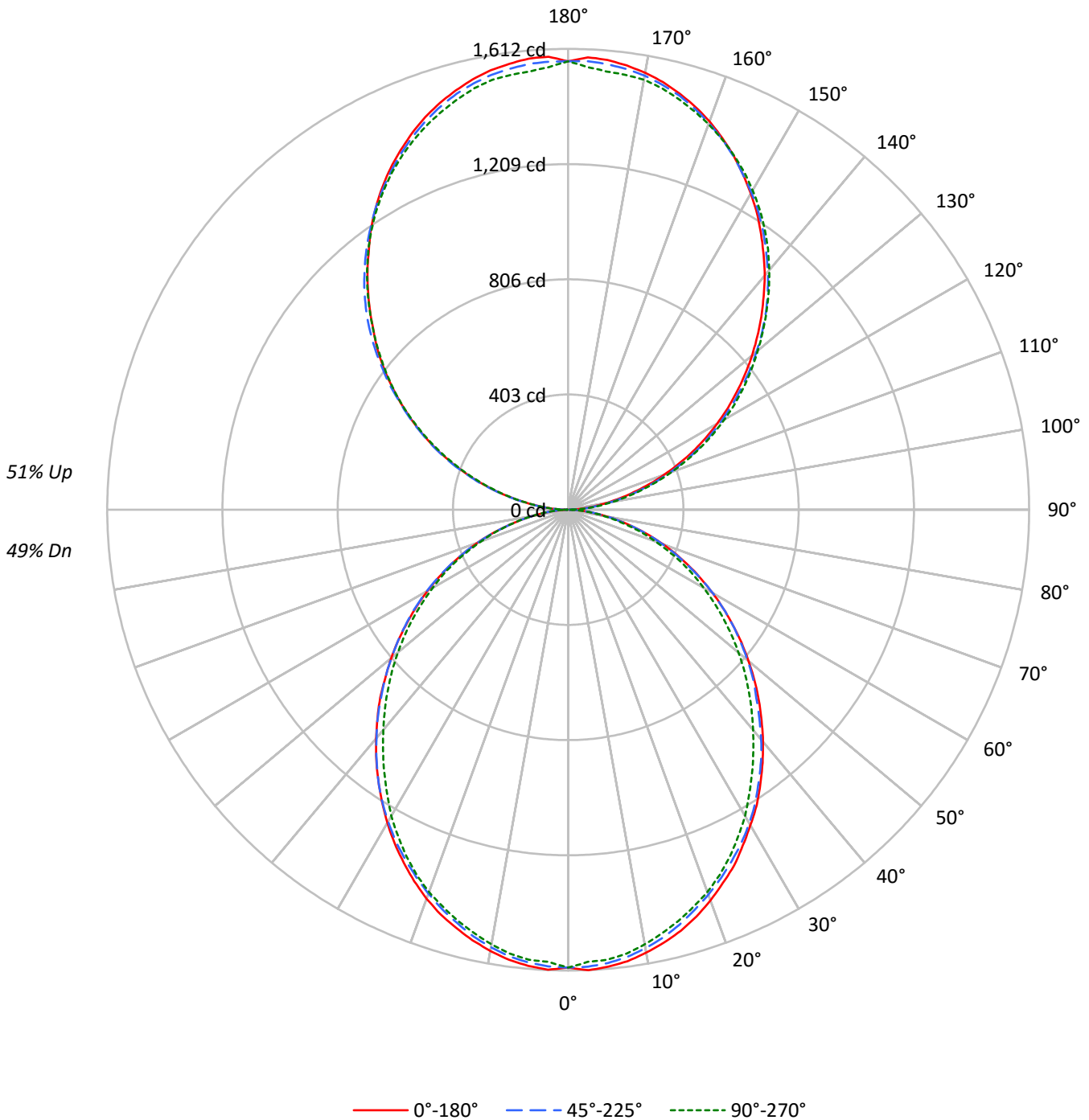
Lumens per Lamp: N/A
Luminaire Lumens: 8225.3 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4.08' x H: 0.38')
CIE Type: General Diffuse

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°	10133	10133	10133
5°	10109	9302	10091
10°	9946	8560	9909
15°	9744	7858	9681
20°	9477	7218	9432
25°	9193	6579	9114
30°	8840	5947	8772
35°	8500	5313	8400
40°	8125	4732	8012
45°	7727	4200	7615
50°	7305	3691	7165
55°	6853	3194	6691
60°	6367	2705	6196
65°	5836	2234	5627
70°	5213	1733	4966
75°	4373	1231	4069
80°	3311	766	3028
85°	1980	334	1735



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.6	1.8
10°-20°	422.8	5.1
20°-30°	621.2	7.6
30°-40°	717.4	8.7
40°-50°	711.1	8.6
50°-60°	616.8	7.5
60°-70°	450.5	5.5
70°-80°	246.2	3.0
80°-90°	64.0	0.8
90°-100°	77.8	0.9
100°-110°	280.9	3.4
110°-120°	499.7	6.1
120°-130°	666.4	8.1
130°-140°	753.9	9.2
140°-150°	744.7	9.1
150°-160°	630.6	7.7
160°-170°	422.3	5.1
170°-180°	148.2	1.8
0°-30°	1194.6	14.5
0°-40°	1912.0	23.2
0°-60°	3239.9	39.4
0°-90°	4000.6	48.6
90°-120°	858.4	10.4
90°-150°	3023.5	36.8
90°-180°	4225.0	51.4
0°-180°	8225.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1602	1602	1602	1602	1602	
5°	1605	1592	1580	1590	1602	152
15°	1524	1503	1489	1498	1514	429
25°	1373	1355	1338	1349	1362	631
35°	1171	1162	1121	1158	1158	733
45°	943	930	892	925	929	727
55°	703	702	662	689	686	629
65°	467	463	437	452	450	462
75°	240	238	220	224	224	256
85°	56	59	52	52	49	63
90°	2	4	2	3	2	7
95°	54	64	71	74	69	61
105°	238	257	267	276	272	255
115°	479	499	507	518	515	474
125°	720	738	751	762	753	644
135°	955	978	981	1001	979	737
145°	1176	1189	1198	1205	1202	736
155°	1367	1366	1369	1378	1387	629
165°	1507	1500	1488	1507	1518	425
175°	1579	1564	1539	1565	1584	150
180°	1568	1568	1568	1568	1568	



TEST NUMBER: P199543

CATALOG NUMBER: S125-DIW-U2-2-30-0048-1D-UDD-1-5-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7
2.5°	1612.5	1595.8	1599.7	1596.8	1583.1	1594.8	1598.7	1592.9	1610.5
5°	1604.6	1588.0	1591.9	1588.0	1580.1	1586.0	1589.9	1584.0	1601.7
7.5°	1592.9	1575.2	1578.2	1574.2	1566.4	1571.3	1576.2	1570.3	1588.0
10°	1573.3	1556.6	1557.6	1552.7	1543.9	1549.7	1554.6	1549.7	1567.4
12.5°	1550.7	1533.1	1533.1	1525.2	1517.4	1522.3	1529.2	1525.2	1542.9
15°	1524.3	1505.6	1502.7	1497.8	1489.0	1494.8	1497.8	1496.8	1514.4
17.5°	1491.9	1472.3	1468.4	1467.4	1456.6	1464.5	1465.4	1462.5	1484.1
20°	1454.7	1436.0	1433.1	1432.1	1423.3	1429.2	1429.2	1425.2	1447.8
22.5°	1413.5	1395.8	1394.9	1392.9	1383.1	1390.0	1390.0	1384.1	1406.6
25°	1373.3	1351.7	1354.7	1349.8	1338.0	1347.8	1348.8	1339.0	1361.5
27.5°	1323.3	1306.6	1312.5	1303.7	1288.0	1300.8	1306.6	1291.9	1315.5
30°	1274.3	1256.7	1266.5	1250.8	1237.0	1248.8	1259.6	1241.0	1264.5
32.5°	1226.3	1205.7	1217.4	1197.8	1178.2	1192.9	1210.6	1192.9	1211.6
35°	1171.4	1154.7	1161.6	1141.0	1121.4	1136.1	1157.6	1141.0	1157.6
37.5°	1116.5	1102.8	1107.7	1083.2	1063.5	1078.2	1100.8	1088.1	1102.8
40°	1059.6	1049.8	1049.8	1025.3	1005.7	1019.4	1043.0	1036.1	1044.9
42.5°	1000.8	996.9	989.0	967.5	948.9	962.6	985.1	983.2	987.1
45°	943.0	943.0	930.2	907.7	892.0	904.7	925.3	930.2	929.3
47.5°	883.2	888.1	877.3	852.8	835.2	847.9	866.5	875.3	865.5
50°	823.4	832.2	818.5	796.9	777.3	791.0	806.7	818.5	807.7
52.5°	763.6	774.4	759.7	739.1	719.5	732.2	747.9	761.6	747.9
55°	702.8	715.6	701.8	680.3	661.7	673.4	689.1	702.8	686.2
57.5°	643.0	654.8	643.0	621.5	603.8	614.6	631.3	642.0	627.3
60°	583.2	596.0	584.2	563.6	547.0	555.8	571.5	582.3	567.6
62.5°	524.4	535.2	522.5	505.8	493.1	497.0	511.7	524.4	508.7
65°	466.6	476.4	462.7	448.0	437.2	439.1	451.9	458.7	449.9
67.5°	409.7	420.5	405.8	392.1	379.3	383.3	394.1	403.9	393.1
70°	352.9	363.7	348.0	336.2	325.4	327.4	336.2	347.0	336.2
72.5°	297.0	305.8	295.0	281.3	273.5	275.4	280.3	290.1	279.4
75°	240.2	250.0	238.2	227.4	219.6	221.5	224.5	232.3	223.5
77.5°	187.2	194.1	186.2	177.4	172.5	173.5	174.5	180.4	172.5
80°	138.2	144.1	139.2	132.3	128.4	128.4	128.4	133.3	126.4
82.5°	94.1	100.0	96.1	91.2	88.2	85.3	87.2	91.2	85.3
85°	55.9	60.8	58.8	53.9	52.0	50.0	52.0	53.9	49.0
87.5°	25.5	29.4	26.5	21.6	19.6	17.6	17.6	20.6	16.7
90°	2.0	4.9	3.9	2.9	2.0	2.0	2.9	3.9	2.0
92.5°	18.6	25.5	25.5	22.5	27.4	31.4	38.2	38.2	33.3
95°	53.9	60.8	63.7	65.7	70.6	72.5	74.5	74.5	68.6
97.5°	92.1	101.9	103.9	106.8	112.7	113.7	116.6	117.6	110.8
100°	135.3	147.0	149.0	152.9	159.8	160.8	164.7	166.6	159.8
102.5°	184.3	198.0	200.9	203.9	208.8	212.7	217.6	220.6	212.7
105°	238.2	254.9	256.8	260.7	266.6	270.5	276.4	278.4	271.5
107.5°	298.0	310.7	316.6	318.6	324.5	328.4	336.2	337.2	331.3
110°	356.8	368.6	376.4	378.4	384.2	388.2	396.0	396.0	391.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	417.6	430.3	437.2	439.1	446.0	448.9	456.8	457.8	452.9
115°	479.3	491.1	498.9	500.9	506.8	510.7	517.6	519.5	514.6
117.5°	541.1	552.8	558.7	562.6	569.5	572.5	576.4	579.3	574.4
120°	600.9	612.6	617.5	623.4	630.3	633.2	639.1	637.1	634.2
122.5°	661.7	672.4	677.3	684.2	692.0	693.0	696.9	696.0	694.0
125°	720.5	729.3	738.1	742.0	750.9	750.9	761.6	752.8	752.8
127.5°	780.3	787.1	798.9	800.8	808.7	809.7	822.4	809.7	812.6
130°	839.1	844.0	859.7	859.7	865.5	867.5	884.2	866.5	870.4
132.5°	896.9	900.8	919.5	917.5	923.4	925.3	944.0	923.4	922.4
135°	954.7	956.7	978.3	975.3	981.2	984.1	1000.8	978.3	979.2
137.5°	1011.6	1010.6	1033.2	1032.2	1038.1	1040.0	1055.7	1029.2	1036.1
140°	1069.4	1062.6	1086.1	1088.1	1093.9	1095.9	1106.7	1086.1	1092.0
142.5°	1122.4	1119.4	1137.1	1140.0	1147.8	1147.8	1157.6	1137.1	1144.9
145°	1176.3	1169.4	1189.0	1189.0	1197.8	1196.9	1204.7	1191.0	1201.8
147.5°	1229.2	1220.4	1237.0	1238.0	1245.9	1245.9	1252.7	1239.0	1252.7
150°	1277.2	1269.4	1281.2	1282.1	1290.0	1289.0	1295.9	1289.0	1300.8
152.5°	1323.3	1315.5	1323.3	1322.3	1332.1	1329.2	1338.0	1332.1	1345.9
155°	1367.4	1358.6	1365.5	1361.5	1369.4	1368.4	1378.2	1376.2	1387.0
157.5°	1407.6	1397.8	1403.7	1398.8	1403.7	1404.7	1415.4	1414.5	1426.2
160°	1444.9	1435.1	1439.0	1430.2	1435.1	1436.0	1449.8	1449.8	1461.5
162.5°	1478.2	1467.4	1471.3	1457.6	1462.5	1462.5	1480.1	1480.1	1491.9
165°	1506.6	1496.8	1499.7	1483.1	1488.0	1489.0	1506.6	1507.6	1518.4
167.5°	1532.1	1521.3	1522.3	1506.6	1510.5	1511.5	1527.2	1529.2	1541.9
170°	1551.7	1541.9	1541.9	1524.3	1527.2	1528.2	1544.8	1547.8	1560.5
172.5°	1567.4	1556.6	1554.6	1536.0	1534.1	1539.0	1555.6	1561.5	1573.3
175°	1579.1	1567.4	1564.4	1545.8	1539.0	1548.8	1565.4	1570.3	1584.0
177.5°	1584.0	1572.3	1570.3	1550.7	1549.7	1552.7	1568.4	1574.2	1586.0
180°	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4	1568.4

(END OF REPORT)