

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: P199545

Luminaire Tested: **S125-DIW-U2-2-35-0048-1D-UDD-1-5-W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199545  
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-U2-2-35-0048-1D-UDD-1-5-W  
Description: DEFINE 5-INCH DIRECT/INDIRECT WALL LED LUMINAIRE  
UPLIGHT LL2-3500K, SATIN WHITE DIFFUSER  
DOWNLIGHT LL2-3500K, SATIN WHITE DIFFUSER  
Light Source: -  
757G  
Ballast/Driver: ELECTRONIC DRIVERS

**Summary**

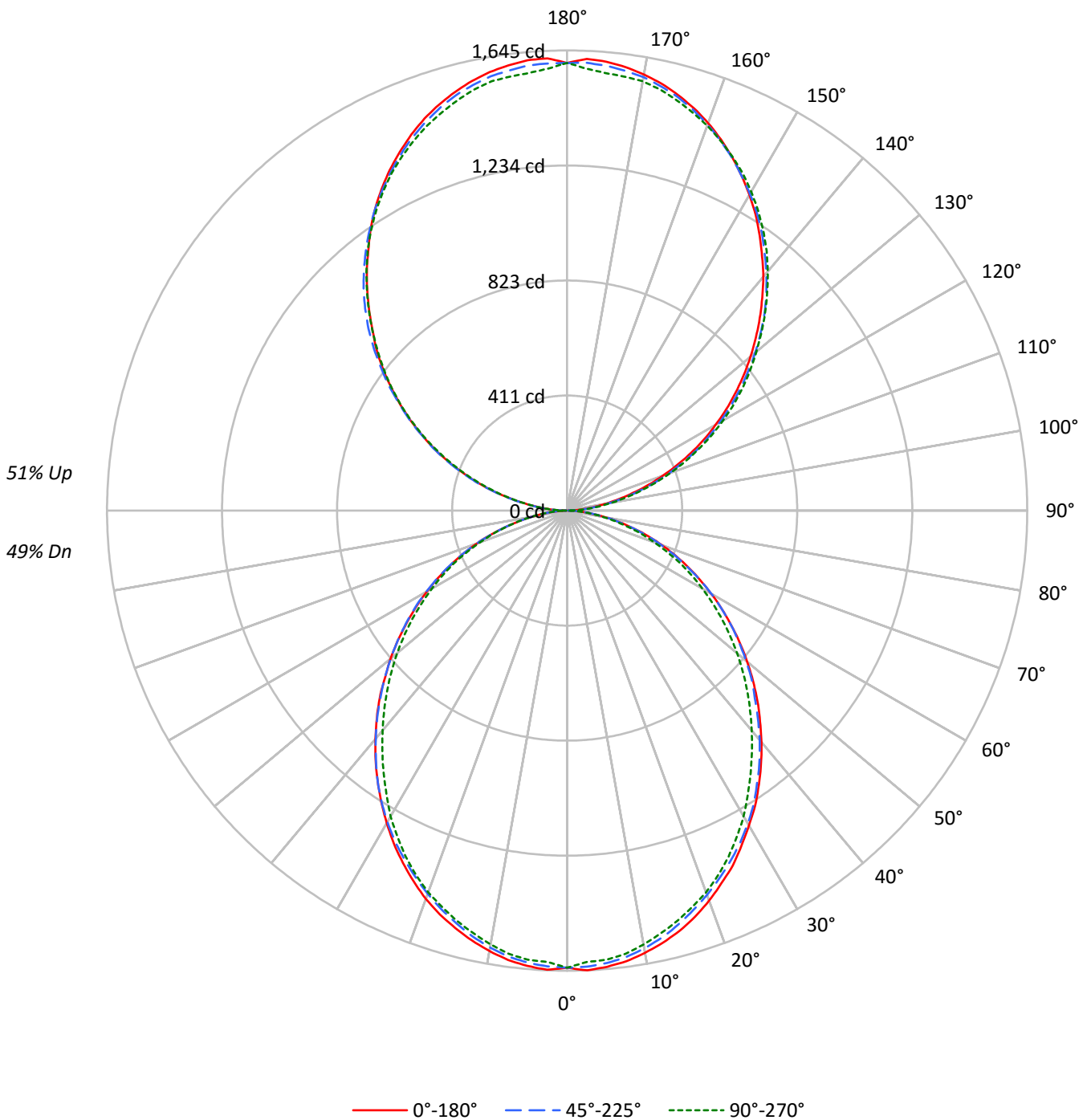
Lumens per Lamp: N/A  
Luminaire Lumens: 8391.2 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.29  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4.08' x H: 0.38')  
CIE Type: General Diffuse

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	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					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°	10338	10338	10338
5°	10313	9490	10294
10°	10146	8732	10108
15°	9940	8016	9876
20°	9668	7364	9622
25°	9378	6712	9298
30°	9019	6067	8949
35°	8672	5420	8570
40°	8289	4828	8174
45°	7883	4285	7768
50°	7452	3766	7310
55°	6991	3258	6826
60°	6495	2759	6321
65°	5953	2279	5741
70°	5317	1768	5066
75°	4460	1256	4151
80°	3378	782	3090
85°	2019	341	1771



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.6	1.8
10°-20°	431.3	5.1
20°-30°	633.7	7.6
30°-40°	731.9	8.7
40°-50°	725.5	8.6
50°-60°	629.2	7.5
60°-70°	459.6	5.5
70°-80°	251.1	3.0
80°-90°	65.3	0.8
90°-100°	79.4	0.9
100°-110°	286.5	3.4
110°-120°	509.8	6.1
120°-130°	679.9	8.1
130°-140°	769.1	9.2
140°-150°	759.8	9.1
150°-160°	643.4	7.7
160°-170°	430.8	5.1
170°-180°	151.2	1.8
0°-30°	1218.7	14.5
0°-40°	1950.6	23.2
0°-60°	3305.3	39.4
0°-90°	4081.3	48.6
90°-120°	875.8	10.4
90°-150°	3084.5	36.8
90°-180°	4310.0	51.4
0°-180°	8391.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1634	1634	1634	1634	1634	
5°	1637	1624	1612	1622	1634	155
15°	1555	1533	1519	1528	1545	438
25°	1401	1382	1365	1376	1389	644
35°	1195	1185	1144	1181	1181	747
45°	962	949	910	944	948	742
55°	717	716	675	703	700	641
65°	476	472	446	461	459	472
75°	245	243	224	229	228	261
85°	57	60	53	53	50	64
90°	2	4	2	3	2	7
95°	55	65	72	76	70	62
105°	243	262	272	282	277	260
115°	489	509	517	528	525	484
125°	735	753	766	777	768	657
135°	974	998	1001	1021	999	752
145°	1200	1213	1222	1229	1226	751
155°	1395	1393	1397	1406	1415	642
165°	1537	1530	1518	1537	1549	433
175°	1611	1596	1570	1597	1616	153
180°	1600	1600	1600	1600	1600	



TEST NUMBER: P199545

CATALOG NUMBER: S125-DIW-U2-2-35-0048-1D-UDD-1-5-W

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1634	1634	1634	1634	1634	1634	1634	1634	1634
2.5°	1645	1628	1632	1629	1615	1627	1631	1625	1643
5°	1637	1620	1624	1620	1612	1618	1622	1616	1634
7.5°	1625	1607	1610	1606	1598	1603	1608	1602	1620
10°	1605	1588	1589	1584	1575	1581	1586	1581	1599
12.5°	1582	1564	1564	1556	1548	1553	1560	1556	1574
15°	1555	1536	1533	1528	1519	1525	1528	1527	1545
17.5°	1522	1502	1498	1497	1486	1494	1495	1492	1514
20°	1484	1465	1462	1461	1452	1458	1458	1454	1477
22.5°	1442	1424	1423	1421	1411	1418	1418	1412	1435
25°	1401	1379	1382	1377	1365	1375	1376	1366	1389
27.5°	1350	1333	1339	1330	1314	1327	1333	1318	1342
30°	1300	1282	1292	1276	1262	1274	1285	1266	1290
32.5°	1251	1230	1242	1222	1202	1217	1235	1217	1236
35°	1195	1178	1185	1164	1144	1159	1181	1164	1181
37.5°	1139	1125	1130	1105	1085	1100	1123	1110	1125
40°	1081	1071	1071	1046	1026	1040	1064	1057	1066
42.5°	1021	1017	1009	987	968	982	1005	1003	1007
45°	962	962	949	926	910	923	944	949	948
47.5°	901	906	895	870	852	865	884	893	883
50°	840	849	835	813	793	807	823	835	824
52.5°	779	790	775	754	734	747	763	777	763
55°	717	730	716	694	675	687	703	717	700
57.5°	656	668	656	634	616	627	644	655	640
60°	595	608	596	575	558	567	583	594	579
62.5°	535	546	533	516	503	507	522	535	519
65°	476	486	472	457	446	448	461	468	459
67.5°	418	429	414	400	387	391	402	412	401
70°	360	371	355	343	332	334	343	354	343
72.5°	303	312	301	287	279	281	286	296	285
75°	245	255	243	232	224	226	229	237	228
77.5°	191	198	190	181	176	177	178	184	176
80°	141	147	142	135	131	131	131	136	129
82.5°	96	102	98	93	90	87	89	93	87
85°	57	62	60	55	53	51	53	55	50
87.5°	26	30	27	22	20	18	18	21	17
90°	2	5	4	3	2	2	3	4	2
92.5°	19	26	26	23	28	32	39	39	34
95°	55	62	65	67	72	74	76	76	70
97.5°	94	104	106	109	115	116	119	120	113
100°	138	150	152	156	163	164	168	170	163
102.5°	188	202	205	208	213	217	222	225	217
105°	243	260	262	266	272	276	282	284	277
107.5°	304	317	323	325	331	335	343	344	338
110°	364	376	384	386	392	396	404	404	399



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	426	439	446	448	455	458	466	467	462
115°	489	501	509	511	517	521	528	530	525
117.5°	552	564	570	574	581	584	588	591	586
120°	613	625	630	636	643	646	652	650	647
122.5°	675	686	691	698	706	707	711	710	708
125°	735	744	753	757	766	766	777	768	768
127.5°	796	803	815	817	825	826	839	826	829
130°	856	861	877	877	883	885	902	884	888
132.5°	915	919	938	936	942	944	963	942	941
135°	974	976	998	995	1001	1004	1021	998	999
137.5°	1032	1031	1054	1053	1059	1061	1077	1050	1057
140°	1091	1084	1108	1110	1116	1118	1129	1108	1114
142.5°	1145	1142	1160	1163	1171	1171	1181	1160	1168
145°	1200	1193	1213	1213	1222	1221	1229	1215	1226
147.5°	1254	1245	1262	1263	1271	1271	1278	1264	1278
150°	1303	1295	1307	1308	1316	1315	1322	1315	1327
152.5°	1350	1342	1350	1349	1359	1356	1365	1359	1373
155°	1395	1386	1393	1389	1397	1396	1406	1404	1415
157.5°	1436	1426	1432	1427	1432	1433	1444	1443	1455
160°	1474	1464	1468	1459	1464	1465	1479	1479	1491
162.5°	1508	1497	1501	1487	1492	1492	1510	1510	1522
165°	1537	1527	1530	1513	1518	1519	1537	1538	1549
167.5°	1563	1552	1553	1537	1541	1542	1558	1560	1573
170°	1583	1573	1573	1555	1558	1559	1576	1579	1592
172.5°	1599	1588	1586	1567	1565	1570	1587	1593	1605
175°	1611	1599	1596	1577	1570	1580	1597	1602	1616
177.5°	1616	1604	1602	1582	1581	1584	1600	1606	1618
180°	1600	1600	1600	1600	1600	1600	1600	1600	1600

(END OF REPORT)