

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: P199546

Luminaire Tested: **S125-DIP-U2-2-35-X-X0048-1D-UDD-1-NA-W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199546  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P27900 P27899)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S125-DIP-U2-2-35-X-X0048-1D-UDD-1-NA-W  
Description: DEFINE 5-INCH DIRECT/INDIRECT PENDANT LED LUMINAIRE  
UPLIGHT LL2-3500K, NO LENS  
DOWNLIGHT LL2-3500K, SATIN WHITE DIFFUSER  
Light Source: -  
757G  
Ballast/Driver: ELECTRONIC DRIVERS

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9171.5 lumens  
Efficiency: N/A  
Efficacy: 113.9 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

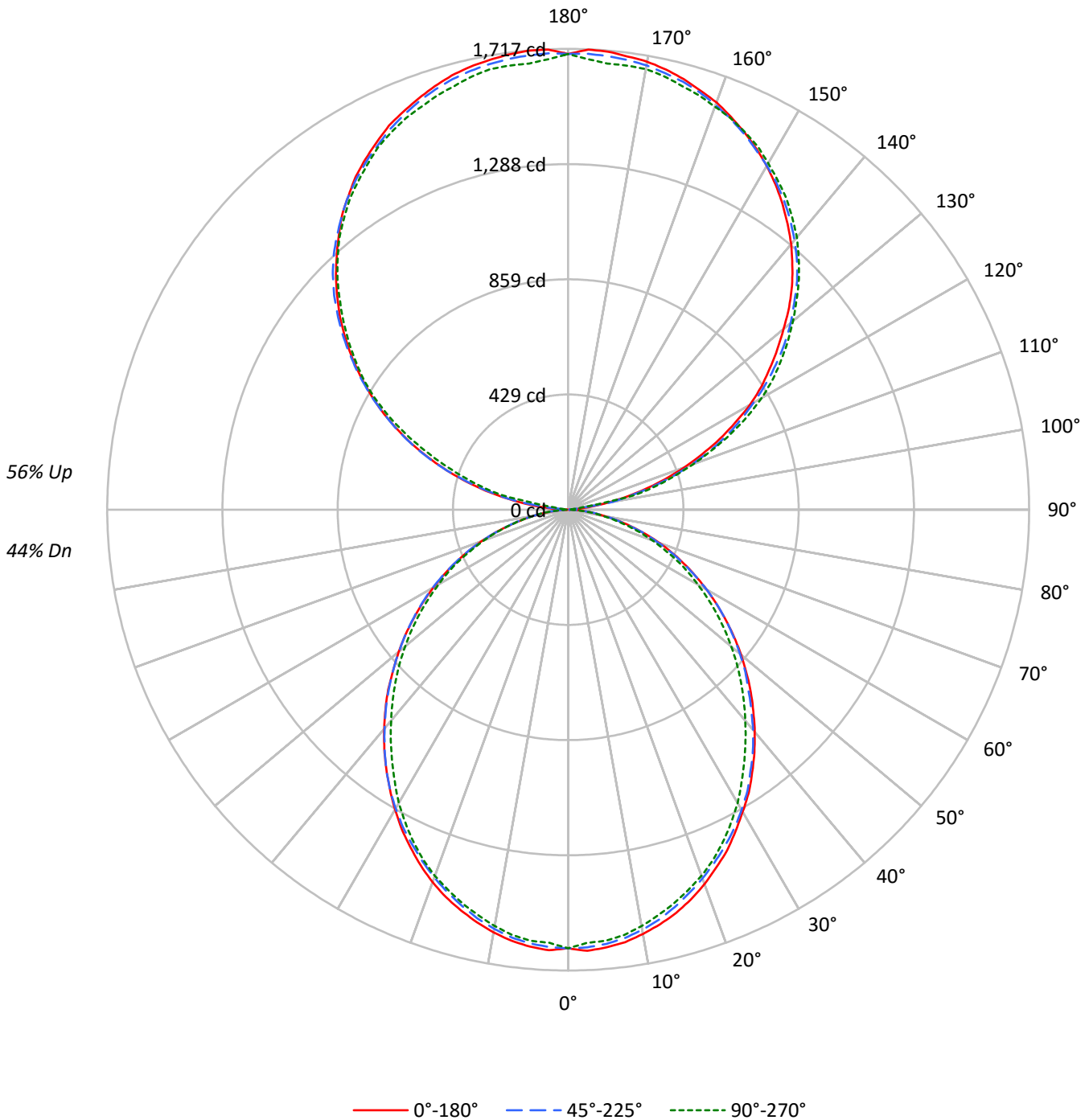
Input Watts (W): 80.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	81	79	70	68	66	57	56	54	45	44	43	38
2	88	81	75	70	80	74	69	64	62	58	55	50	48	45	40	38	36	32
3	80	71	64	58	73	65	59	54	55	50	46	45	41	38	35	33	31	27
4	73	63	55	49	67	58	51	46	48	43	39	40	36	33	32	29	27	23
5	67	56	48	42	62	52	45	39	43	38	34	36	32	29	29	26	23	20
6	62	50	42	36	57	46	39	34	39	34	30	32	28	25	26	23	21	18
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	21	18	16
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16	14
9	50	37	30	25	45	35	28	24	30	24	21	25	21	18	20	17	15	13
10	46	34	27	22	42	32	25	21	27	22	19	23	19	16	19	16	13	12

**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	1.7
10°-20°	431.3	4.7
20°-30°	633.7	6.9
30°-40°	731.9	8.0
40°-50°	725.5	7.9
50°-60°	629.2	6.9
60°-70°	459.6	5.0
70°-80°	251.1	2.7
80°-90°	65.3	0.7
90°-100°	53.9	0.6
100°-110°	360.7	3.9
110°-120°	661.6	7.2
120°-130°	857.7	9.4
130°-140°	931.9	10.2
140°-150°	880.8	9.6
150°-160°	716.5	7.8
160°-170°	465.9	5.1
170°-180°	161.1	1.8
0°-30°	1218.7	13.3
0°-40°	1950.6	21.3
0°-60°	3305.3	36.0
0°-90°	4081.3	44.5
90°-120°	1076.2	11.7
90°-150°	3746.6	40.9
90°-180°	5090.0	55.5
0°-180°	9171.5	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	5
95°	36	11	12	17	83	53
105°	296	314	336	371	379	315
115°	623	649	668	701	698	614
125°	916	945	967	986	980	820
135°	1179	1206	1215	1240	1223	908
145°	1391	1403	1416	1427	1427	870
155°	1552	1547	1554	1566	1579	716
165°	1661	1651	1635	1661	1675	469
175°	1713	1696	1669	1699	1717	163
180°	1698	1698	1698	1698	1698	



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CATALOG NUMBER: S125-DIP-U2-2-35-X-X0048-1D-UDD-1-NA-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°	5	7	7	8	8	9	10	12	34
95°	36	40	11	12	12	13	17	97	83
97.5°	83	106	35	21	19	28	108	154	146
100°	148	165	167	109	74	153	213	230	219
102.5°	219	238	233	253	260	282	287	309	300
105°	296	317	314	334	336	361	371	384	379
107.5°	377	392	400	413	412	439	459	465	460
110°	460	470	485	494	494	521	544	545	540



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	539	556	570	581	579	608	624	627	621
115°	623	630	649	665	668	690	701	704	698
117.5°	700	711	723	742	752	766	774	779	773
120°	782	789	796	814	832	840	846	850	845
122.5°	853	858	873	885	903	909	918	917	913
125°	916	923	945	952	967	975	986	980	980
127.5°	982	988	1016	1017	1031	1040	1054	1044	1045
130°	1047	1057	1082	1082	1093	1103	1119	1104	1108
132.5°	1116	1119	1142	1143	1153	1163	1182	1162	1166
135°	1179	1176	1206	1201	1215	1221	1240	1216	1223
137.5°	1236	1229	1261	1256	1271	1272	1292	1269	1277
140°	1292	1284	1311	1308	1325	1323	1338	1319	1330
142.5°	1342	1333	1359	1358	1371	1371	1384	1368	1384
145°	1391	1379	1403	1402	1416	1415	1427	1412	1427
147.5°	1437	1425	1444	1442	1454	1455	1465	1456	1472
150°	1479	1468	1480	1479	1490	1491	1501	1497	1509
152.5°	1517	1507	1513	1511	1527	1521	1533	1531	1544
155°	1552	1542	1547	1543	1554	1553	1566	1564	1579
157.5°	1584	1573	1577	1571	1579	1579	1594	1594	1605
160°	1615	1600	1605	1595	1598	1602	1620	1620	1630
162.5°	1637	1627	1630	1616	1619	1621	1642	1642	1654
165°	1661	1648	1651	1634	1635	1640	1661	1662	1675
167.5°	1680	1667	1666	1649	1654	1655	1675	1676	1690
170°	1695	1681	1681	1663	1667	1665	1686	1689	1701
172.5°	1703	1693	1690	1670	1669	1672	1694	1698	1710
175°	1713	1701	1696	1677	1669	1679	1699	1703	1717
177.5°	1716	1704	1700	1680	1680	1682	1702	1705	1716
180°	1698	1698	1698	1698	1698	1698	1698	1698	1698

(END OF REPORT)