

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: P199554

Luminaire Tested: **S125-DIW-U2-LO-40-0048-1D-UDD-1-NA-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199554
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-DIW-U2-LO-40-0048-1D-UDD-1-NA-W
Description: DEFINE 5-INCH DIRECT/INDIRECT WALL LED LUMINAIRE
UPLIGHT LL2-4000K, NO LENS
DOWNLIGHT LLO-4000K, SATIN WHITE DIFFUSER
Light Source: -
757G
Ballast/Driver: ELECTRONIC DRIVERS

Summary

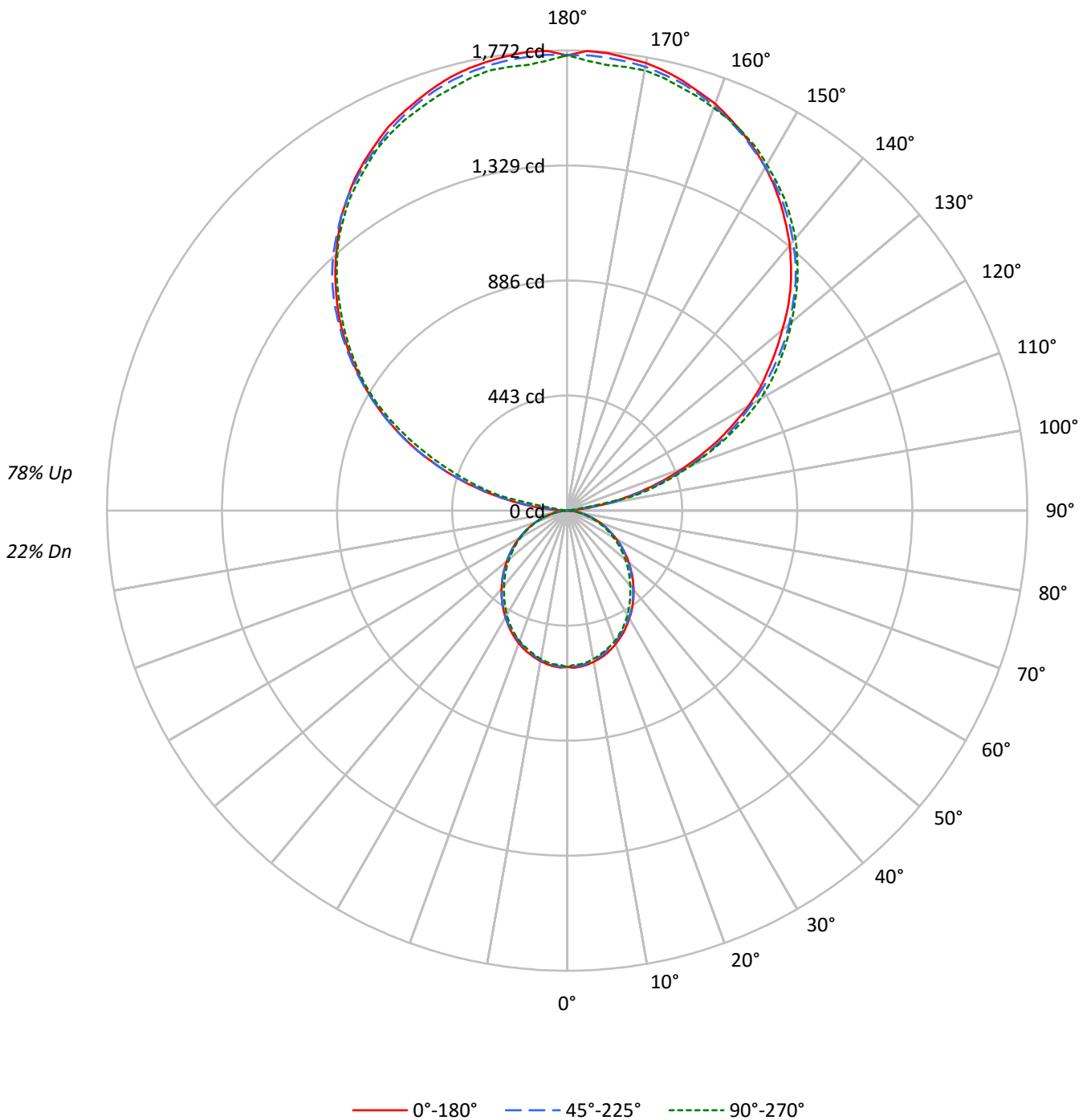
Lumens per Lamp: N/A
Luminaire Lumens: 6757.9 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4.08' x H: 0.38')
CIE Type: Semi-Indirect

Input Watts (W): 52.3
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	101	101	101	101	89	89	89	89	68	68	68	48	48	48	31	31	31	22
1	92	87	84	80	81	78	75	72	59	57	56	43	41	40	27	26	26	19
2	83	76	71	66	74	68	63	59	52	49	46	37	35	34	24	23	22	16
3	76	67	60	55	67	60	54	49	46	42	39	33	31	28	21	20	19	13
4	69	59	52	46	61	53	46	42	41	36	33	29	27	24	19	17	16	12
5	64	53	45	39	56	47	40	35	36	32	28	26	23	21	17	15	14	10
6	58	47	39	34	52	42	35	31	33	28	24	24	21	18	15	14	12	9
7	54	42	35	29	48	38	31	27	29	25	21	21	18	16	14	12	11	8
8	50	38	31	26	44	34	28	23	27	22	19	20	16	14	13	11	10	7
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9	6
10	43	32	25	20	38	28	22	18	22	18	15	16	13	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	3809	3809	3809
5°	3800	3496	3793
10°	3738	3217	3724
15°	3662	2953	3639
20°	3562	2713	3545
25°	3455	2473	3425
30°	3322	2235	3297
35°	3195	1997	3157
40°	3054	1779	3011
45°	2904	1579	2862
50°	2746	1388	2693
55°	2576	1200	2515
60°	2393	1017	2328
65°	2194	839	2115
70°	1959	651	1867
75°	1644	463	1529
80°	1243	288	1138
85°	744	125	652



TEST NUMBER: P199554

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.6	0.8
10°-20°	158.9	2.4
20°-30°	233.5	3.5
30°-40°	269.6	4.0
40°-50°	267.3	4.0
50°-60°	231.8	3.4
60°-70°	169.3	2.5
70°-80°	92.5	1.4
80°-90°	24.1	0.4
90°-100°	55.4	0.8
100°-110°	372.3	5.5
110°-120°	682.9	10.1
120°-130°	885.4	13.1
130°-140°	962.0	14.2
140°-150°	909.2	13.5
150°-160°	739.7	10.9
160°-170°	481.0	7.1
170°-180°	166.3	2.5
0°-30°	449.0	6.6
0°-40°	718.6	10.6
0°-60°	1217.7	18.0
0°-90°	1503.7	22.3
90°-120°	1110.6	16.4
90°-150°	3867.3	57.2
90°-180°	5254.0	77.7
0°-180°	6757.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	602	602	602	602	602	
5°	603	598	594	598	602	57
15°	573	565	560	563	569	161
25°	516	509	503	507	512	237
35°	440	437	422	435	435	275
45°	354	350	335	348	349	273
55°	264	264	249	259	258	236
65°	175	174	164	170	169	174
75°	90	90	82	84	84	96
85°	21	22	20	20	18	24
90°	1	2	1	1	1	2
95°	37	11	12	18	86	55
105°	306	324	347	383	391	325
115°	643	670	690	724	720	634
125°	946	976	998	1018	1012	846
135°	1217	1245	1254	1280	1262	937
145°	1436	1448	1462	1473	1473	898
155°	1602	1597	1604	1616	1630	739
165°	1715	1704	1688	1715	1729	484
175°	1768	1751	1723	1754	1772	168
180°	1753	1753	1753	1753	1753	



TEST NUMBER: P199554

CATALOG NUMBER: S125-DIW-U2-LO-40-0048-1D-UDD-1-NA-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0
2.5°	606.1	599.8	601.3	600.2	595.0	599.4	600.9	598.7	605.3
5°	603.1	596.8	598.3	596.8	593.9	596.1	597.6	595.4	602.0
7.5°	598.7	592.1	593.2	591.7	588.7	590.6	592.4	590.2	596.8
10°	591.3	585.1	585.4	583.6	580.3	582.5	584.3	582.5	589.1
12.5°	582.8	576.2	576.2	573.3	570.3	572.2	574.7	573.3	579.9
15°	572.9	565.9	564.8	562.9	559.6	561.8	562.9	562.6	569.2
17.5°	560.7	553.4	551.9	551.5	547.5	550.4	550.8	549.7	557.8
20°	546.7	539.7	538.6	538.3	534.9	537.2	537.2	535.7	544.2
22.5°	531.3	524.6	524.3	523.5	519.8	522.4	522.4	520.2	528.7
25°	516.2	508.1	509.2	507.3	502.9	506.6	506.9	503.3	511.7
27.5°	497.4	491.1	493.3	490.0	484.1	488.9	491.1	485.6	494.4
30°	478.9	472.3	476.0	470.1	464.9	469.4	473.4	466.4	475.3
32.5°	460.9	453.2	457.6	450.2	442.8	448.4	455.0	448.4	455.4
35°	440.3	434.0	436.6	428.8	421.5	427.0	435.1	428.8	435.1
37.5°	419.6	414.5	416.3	407.1	399.7	405.3	413.7	408.9	414.5
40°	398.3	394.6	394.6	385.4	378.0	383.2	392.0	389.4	392.7
42.5°	376.2	374.7	371.7	363.6	356.6	361.8	370.3	369.5	371.0
45°	354.4	354.4	349.6	341.2	335.3	340.1	347.8	349.6	349.3
47.5°	331.9	333.8	329.7	320.5	313.9	318.7	325.7	329.0	325.3
50°	309.5	312.8	307.6	299.5	292.2	297.3	303.2	307.6	303.6
52.5°	287.0	291.1	285.5	277.8	270.4	275.2	281.1	286.3	281.1
55°	264.2	268.9	263.8	255.7	248.7	253.1	259.0	264.2	257.9
57.5°	241.7	246.1	241.7	233.6	226.9	231.0	237.3	241.3	235.8
60°	219.2	224.0	219.6	211.8	205.6	208.9	214.8	218.8	213.3
62.5°	197.1	201.2	196.4	190.1	185.3	186.8	192.3	197.1	191.2
65°	175.4	179.1	173.9	168.4	164.3	165.1	169.8	172.4	169.1
67.5°	154.0	158.1	152.5	147.4	142.6	144.1	148.1	151.8	147.7
70°	132.6	136.7	130.8	126.4	122.3	123.1	126.4	130.4	126.4
72.5°	111.6	114.9	110.9	105.7	102.8	103.5	105.4	109.1	105.0
75°	90.3	93.9	89.5	85.5	82.5	83.3	84.4	87.3	84.0
77.5°	70.4	72.9	70.0	66.7	64.8	65.2	65.6	67.8	64.8
80°	51.9	54.2	52.3	49.7	48.3	48.3	48.3	50.1	47.5
82.5°	35.4	37.6	36.1	34.3	33.2	32.1	32.8	34.3	32.1
85°	21.0	22.8	22.1	20.3	19.5	18.8	19.5	20.3	18.4
87.5°	9.6	11.1	9.9	8.1	7.4	6.6	6.6	7.7	6.3
90°	0.7	1.8	1.5	1.1	0.7	0.7	1.1	1.5	0.7
92.5°	5.2	7.2	7.2	8.3	8.3	9.3	10.3	12.4	35.1
95°	37.2	41.3	11.4	12.4	12.4	13.4	17.5	100.1	85.7
97.5°	85.7	109.4	36.1	21.7	19.6	28.9	111.5	159.0	150.7
100°	152.8	170.3	172.4	112.5	76.4	157.9	219.9	237.4	226.1
102.5°	226.1	245.7	240.5	261.2	268.4	291.1	296.3	319.0	309.7
105°	305.6	327.2	324.1	344.8	346.8	372.7	383.0	396.4	391.2
107.5°	389.2	404.7	412.9	426.3	425.3	453.2	473.8	480.0	474.8
110°	474.8	485.2	500.7	509.9	509.9	537.8	561.6	562.6	557.4



TEST NUMBER: P199554

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	556.4	573.9	588.4	599.8	597.7	627.6	644.1	647.2	641.0
115°	643.1	650.3	669.9	686.5	689.6	712.3	723.6	726.7	720.5
117.5°	722.6	734.0	746.3	766.0	776.3	790.7	799.0	804.1	798.0
120°	807.2	814.5	821.7	840.3	858.9	867.1	873.3	877.4	872.3
122.5°	880.5	885.7	901.2	913.6	932.1	938.3	947.6	946.6	942.5
125°	945.6	952.8	975.5	982.7	998.2	1006.5	1017.8	1011.6	1011.6
127.5°	1013.7	1019.9	1048.8	1049.8	1064.3	1073.6	1088.0	1077.7	1078.7
130°	1080.8	1091.1	1116.9	1116.9	1128.3	1138.6	1155.1	1139.6	1143.8
132.5°	1152.0	1155.1	1178.9	1179.9	1190.2	1200.5	1220.2	1199.5	1203.6
135°	1217.1	1214.0	1244.9	1239.8	1254.2	1260.4	1280.0	1255.3	1262.5
137.5°	1275.9	1268.7	1301.7	1296.5	1312.0	1313.1	1333.7	1310.0	1318.2
140°	1333.7	1325.4	1353.3	1350.2	1367.8	1365.7	1381.2	1361.6	1372.9
142.5°	1385.3	1376.0	1402.9	1401.8	1415.3	1415.3	1428.7	1412.2	1428.7
145°	1435.9	1423.5	1448.3	1447.3	1461.7	1460.7	1473.1	1457.6	1473.1
147.5°	1483.4	1471.0	1490.6	1488.5	1500.9	1502.0	1512.3	1503.0	1519.5
150°	1526.7	1515.4	1527.8	1526.7	1538.1	1539.1	1549.5	1545.3	1557.7
152.5°	1566.0	1555.6	1561.8	1559.8	1576.3	1570.1	1582.5	1580.4	1593.8
155°	1602.1	1591.8	1596.9	1592.8	1604.2	1603.1	1616.5	1614.5	1630.0
157.5°	1635.1	1623.8	1627.9	1621.7	1630.0	1630.0	1645.5	1645.5	1656.8
160°	1667.1	1651.6	1656.8	1646.5	1649.6	1653.7	1672.3	1672.3	1682.6
162.5°	1689.8	1679.5	1682.6	1668.2	1671.3	1673.3	1695.0	1695.0	1707.4
165°	1714.6	1701.2	1704.3	1686.7	1687.8	1692.9	1714.6	1715.6	1729.1
167.5°	1734.2	1720.8	1719.8	1702.2	1707.4	1708.4	1729.1	1730.1	1744.6
170°	1749.7	1735.3	1735.3	1716.7	1720.8	1718.7	1740.4	1743.5	1755.9
172.5°	1758.0	1747.6	1744.6	1723.9	1722.9	1726.0	1748.7	1752.8	1765.2
175°	1768.3	1755.9	1750.7	1731.1	1722.9	1733.2	1753.8	1758.0	1772.4
177.5°	1771.4	1759.0	1754.9	1734.2	1734.2	1736.3	1756.9	1760.0	1771.4
180°	1752.8	1752.8	1752.8	1752.8	1752.8	1752.8	1752.8	1752.8	1752.8

(END OF REPORT)