

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: P199549

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199549
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-LO-30-0048-1D-UDD-1-5-W
Description: DEFINE 5-INCH DIRECT/INDIRECT WALL LED LUMINAIRE
UPLIGHT LL2-3000K, SATIN WHITE DIFFUSER
DOWNLIGHT LLO-3000K, SATIN WHITE DIFFUSER
Light Source: -
757G
Ballast/Driver: ELECTRONIC DRIVERS

Summary

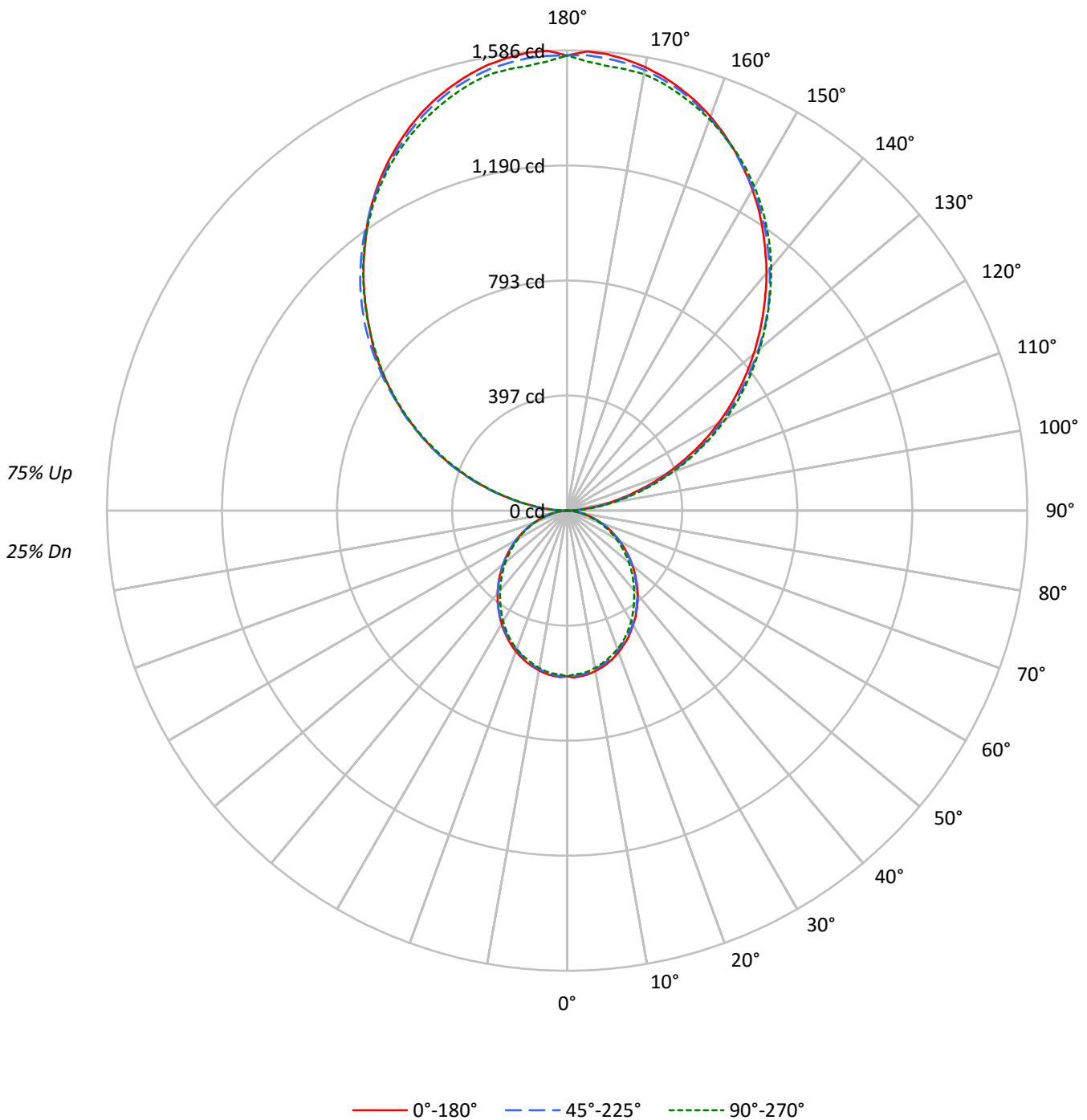
Lumens per Lamp: N/A
Luminaire Lumens: 5652.2 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4.08' x H: 0.38')
CIE Type: Semi-Indirect

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	90	90	90	90	70	70	70	51	51	51	33	33	33	25
1	92	88	84	81	82	79	76	73	61	59	57	45	43	42	30	29	28	21
2	84	77	71	66	75	69	64	60	53	50	47	39	37	35	26	25	24	18
3	77	68	61	55	68	60	55	50	47	43	40	35	32	30	23	22	20	15
4	70	60	52	46	62	53	47	42	42	37	34	31	28	25	21	19	17	13
5	64	53	45	40	57	48	41	36	37	32	29	28	24	22	19	17	15	11
6	59	47	40	34	52	43	36	31	33	29	25	25	22	19	17	15	13	10
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	12	9
8	50	39	31	26	45	35	28	24	27	23	19	21	17	15	14	12	11	8
9	47	35	28	23	42	32	25	21	25	20	17	19	16	13	13	11	10	7
10	44	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	3616	3616	3616
5°	3608	3320	3601
10°	3550	3055	3536
15°	3477	2804	3455
20°	3382	2576	3366
25°	3281	2348	3253
30°	3155	2122	3131
35°	3034	1896	2998
40°	2900	1689	2859
45°	2757	1499	2718
50°	2607	1317	2558
55°	2446	1140	2388
60°	2273	965	2212
65°	2082	797	2009
70°	1860	618	1772
75°	1560	440	1453
80°	1181	273	1080
85°	705	119	620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.7	1.0
10°-20°	150.9	2.7
20°-30°	221.7	3.9
30°-40°	256.1	4.5
40°-50°	253.8	4.5
50°-60°	220.1	3.9
60°-70°	160.8	2.8
70°-80°	87.9	1.6
80°-90°	22.8	0.4
90°-100°	77.6	1.4
100°-110°	280.9	5.0
110°-120°	499.7	8.8
120°-130°	666.4	11.8
130°-140°	753.9	13.3
140°-150°	744.7	13.2
150°-160°	630.6	11.2
160°-170°	422.3	7.5
170°-180°	148.2	2.6
0°-30°	426.3	7.5
0°-40°	682.4	12.1
0°-60°	1156.3	20.5
0°-90°	1427.8	25.3
90°-120°	858.1	15.2
90°-150°	3023.2	53.5
90°-180°	4224.0	74.7
0°-180°	5652.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	572	572	572	572	572	
5°	573	568	564	567	572	54
15°	544	536	531	535	540	153
25°	490	484	478	481	486	225
35°	418	415	400	413	413	261
45°	336	332	318	330	332	260
55°	251	250	236	246	245	224
65°	166	165	156	161	161	165
75°	86	85	78	80	80	91
85°	20	21	18	18	18	22
90°	1	1	1	1	1	4
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	571.6	571.6	571.6	571.6	571.6	571.6	571.6	571.6	571.6
2.5°	575.5	569.5	570.9	569.9	565.0	569.2	570.6	568.5	574.8
5°	572.7	566.7	568.1	566.7	563.9	566.0	567.4	565.3	571.6
7.5°	568.5	562.2	563.2	561.8	559.0	560.8	562.5	560.4	566.7
10°	561.5	555.5	555.9	554.2	551.0	553.1	554.9	553.1	559.4
12.5°	553.5	547.2	547.2	544.4	541.6	543.3	545.8	544.4	550.7
15°	544.0	537.4	536.3	534.6	531.4	533.5	534.6	534.2	540.5
17.5°	532.5	525.5	524.1	523.7	519.9	522.7	523.0	522.0	529.7
20°	519.2	512.5	511.5	511.1	508.0	510.1	510.1	508.7	516.7
22.5°	504.5	498.2	497.8	497.1	493.6	496.1	496.1	494.0	502.0
25°	490.1	482.4	483.5	481.7	477.5	481.0	481.4	477.9	485.9
27.5°	472.3	466.3	468.4	465.3	459.7	464.2	466.3	461.1	469.5
30°	454.8	448.5	452.0	446.4	441.5	445.7	449.5	442.9	451.3
32.5°	437.7	430.3	434.5	427.5	420.5	425.8	432.1	425.8	432.4
35°	418.1	412.1	414.6	407.2	400.2	405.5	413.2	407.2	413.2
37.5°	398.5	393.6	395.3	386.6	379.6	384.8	392.9	388.3	393.6
40°	378.2	374.7	374.7	365.9	358.9	363.8	372.2	369.8	372.9
42.5°	357.2	355.8	353.0	345.3	338.6	343.5	351.6	350.9	352.3
45°	336.5	336.5	332.0	324.0	318.4	322.9	330.3	332.0	331.7
47.5°	315.2	317.0	313.1	304.4	298.1	302.6	309.3	312.4	308.9
50°	293.9	297.0	292.1	284.4	277.4	282.3	287.9	292.1	288.3
52.5°	272.5	276.4	271.1	263.8	256.8	261.3	266.9	271.8	266.9
55°	250.8	255.4	250.5	242.8	236.1	240.3	245.9	250.8	244.9
57.5°	229.5	233.7	229.5	221.8	215.5	219.4	225.3	229.1	223.9
60°	208.2	212.7	208.5	201.2	195.2	198.4	204.0	207.8	202.6
62.5°	187.2	191.0	186.5	180.5	176.0	177.4	182.6	187.2	181.6
65°	166.5	170.0	165.1	159.9	156.0	156.7	161.3	163.7	160.6
67.5°	146.2	150.1	144.8	139.9	135.4	136.8	140.6	144.1	140.3
70°	125.9	129.8	124.2	120.0	116.1	116.8	120.0	123.8	120.0
72.5°	106.0	109.2	105.3	100.4	97.6	98.3	100.1	103.6	99.7
75°	85.7	89.2	85.0	81.2	78.4	79.1	80.1	82.9	79.8
77.5°	66.8	69.3	66.5	63.3	61.6	61.9	62.3	64.4	61.6
80°	49.3	51.4	49.7	47.2	45.8	45.8	45.8	47.6	45.1
82.5°	33.6	35.7	34.3	32.5	31.5	30.4	31.1	32.5	30.4
85°	19.9	21.7	21.0	19.2	18.5	17.8	18.5	19.2	17.5
87.5°	9.1	10.5	9.4	7.7	7.0	6.3	6.3	7.3	5.9
90°	0.7	1.7	1.4	1.0	0.7	0.7	1.0	1.4	0.7
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)