

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: P199553

Luminaire Tested: **S125-DIW-U2-LO-40-0048-1D-UDD-1-5-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199553
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-40-0048-1D-UDD-1-5-W
Description: DEFINE 5-INCH DIRECT/INDIRECT WALL LED LUMINAIRE
UPLIGHT LL2-4000K, SATIN WHITE DIFFUSER
DOWNLIGHT LLO-4000K, SATIN WHITE DIFFUSER
Light Source: -
757G
Ballast/Driver: ELECTRONIC DRIVERS

Summary

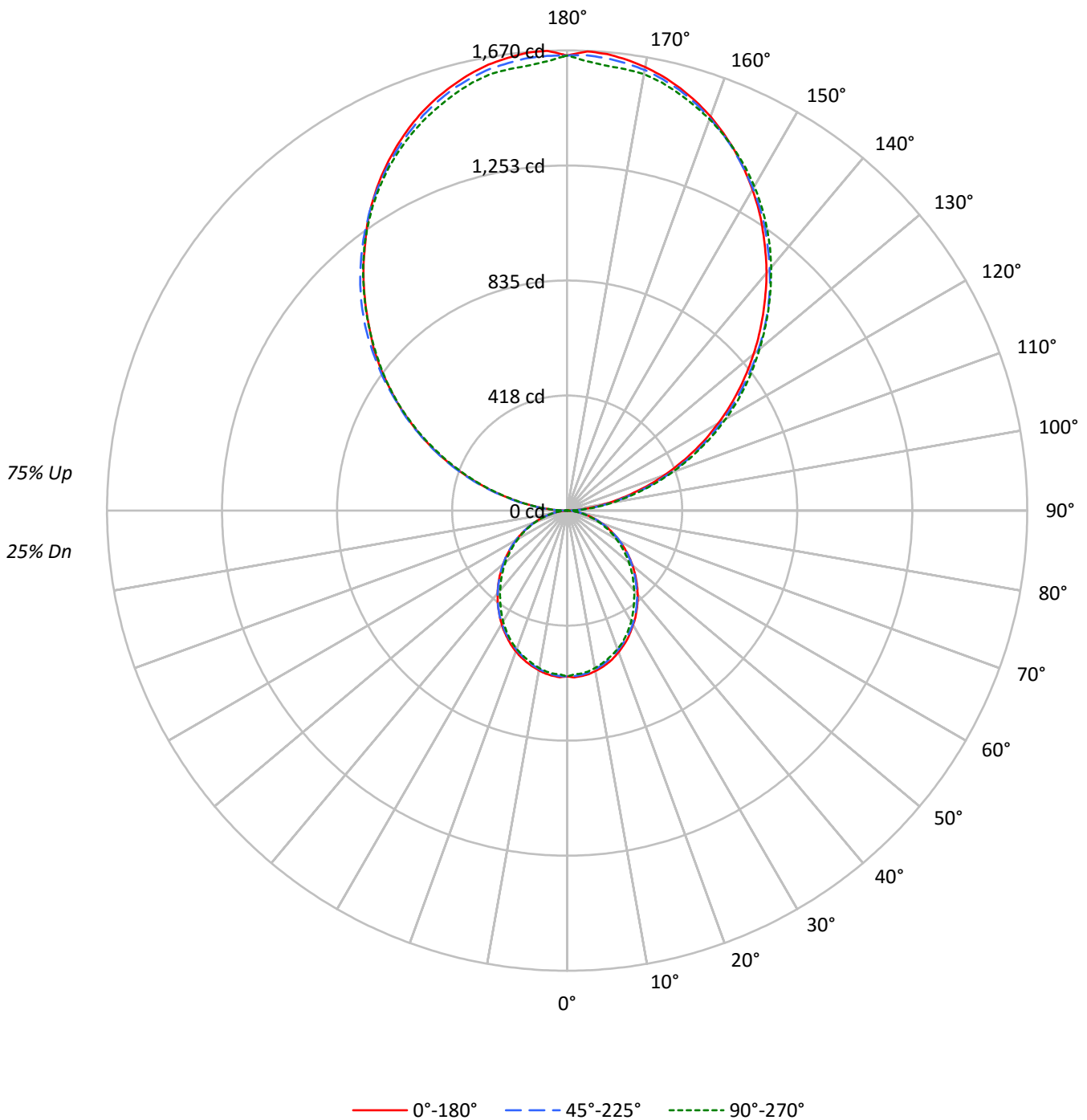
Lumens per Lamp: N/A
Luminaire Lumens: 5952.4 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4.08' x H: 0.38')
CIE Type: Semi-Indirect

Input Watts (W): 52.3
Input Voltage (V): NR
Input Current (A_{in}): 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°	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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.6	1.0
10°-20°	158.9	2.7
20°-30°	233.5	3.9
30°-40°	269.6	4.5
40°-50°	267.3	4.5
50°-60°	231.8	3.9
60°-70°	169.3	2.8
70°-80°	92.5	1.6
80°-90°	24.1	0.4
90°-100°	81.7	1.4
100°-110°	295.8	5.0
110°-120°	526.3	8.8
120°-130°	701.8	11.8
130°-140°	793.9	13.3
140°-150°	784.3	13.2
150°-160°	664.1	11.2
160°-170°	444.7	7.5
170°-180°	156.1	2.6
0°-30°	449.0	7.5
0°-40°	718.6	12.1
0°-60°	1217.7	20.5
0°-90°	1503.7	25.3
90°-120°	903.7	15.2
90°-150°	3183.7	53.5
90°-180°	4449.0	74.7
0°-180°	5952.4	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	4
95°	57	67	74	78	72	64
105°	251	270	281	291	286	268
115°	505	525	534	545	542	499
125°	759	777	791	802	793	679
135°	1005	1030	1033	1054	1031	776
145°	1239	1252	1261	1269	1266	775
155°	1440	1438	1442	1451	1461	663
165°	1587	1579	1567	1587	1599	447
175°	1663	1648	1621	1648	1668	158
180°	1652	1652	1652	1652	1652	



TEST NUMBER: P199553

CATALOG NUMBER: S125-DIW-U2-LO-40-0048-1D-UDD-1-5-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°	19.6	26.8	26.8	23.7	28.9	33.0	40.3	40.3	35.1
95°	56.8	64.0	67.1	69.2	74.3	76.4	78.5	78.5	72.3
97.5°	97.0	107.4	109.4	112.5	118.7	119.7	122.8	123.9	116.6
100°	142.5	154.8	156.9	161.0	168.3	169.3	173.4	175.5	168.3
102.5°	194.1	208.5	211.6	214.7	219.9	224.0	229.2	232.3	224.0
105°	250.8	268.4	270.5	274.6	280.8	284.9	291.1	293.2	285.9
107.5°	313.8	327.2	333.4	335.5	341.7	345.8	354.1	355.1	348.9
110°	375.7	388.1	396.4	398.5	404.7	408.8	417.0	417.0	411.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	439.8	453.2	460.4	462.5	469.7	472.8	481.0	482.1	476.9
115°	504.8	517.2	525.4	527.5	533.7	537.8	545.0	547.1	541.9
117.5°	569.8	582.2	588.4	592.5	599.8	602.9	607.0	610.1	604.9
120°	632.8	645.2	650.3	656.5	663.8	666.9	673.0	671.0	667.9
122.5°	696.8	708.1	713.3	720.5	728.8	729.8	734.0	732.9	730.9
125°	758.7	768.0	777.3	781.4	790.7	790.7	802.1	792.8	792.8
127.5°	821.7	828.9	841.3	843.4	851.6	852.7	866.1	852.7	855.8
130°	883.6	888.8	905.3	905.3	911.5	913.6	931.1	912.5	916.7
132.5°	944.5	948.7	968.3	966.2	972.4	974.5	994.1	972.4	971.4
135°	1005.4	1007.5	1030.2	1027.1	1033.3	1036.4	1054.0	1030.2	1031.2
137.5°	1065.3	1064.3	1088.0	1087.0	1093.2	1095.2	1111.8	1083.9	1091.1
140°	1126.2	1119.0	1143.8	1145.8	1152.0	1154.1	1165.4	1143.8	1150.0
142.5°	1182.0	1178.9	1197.4	1200.5	1208.8	1208.8	1219.1	1197.4	1205.7
145°	1238.7	1231.5	1252.2	1252.2	1261.4	1260.4	1268.7	1254.2	1265.6
147.5°	1294.5	1285.2	1302.7	1303.8	1312.0	1312.0	1319.3	1304.8	1319.3
150°	1345.1	1336.8	1349.2	1350.2	1358.5	1357.4	1364.7	1357.4	1369.8
152.5°	1393.6	1385.3	1393.6	1392.5	1402.9	1399.8	1409.1	1402.9	1417.3
155°	1440.0	1430.7	1438.0	1433.8	1442.1	1441.1	1451.4	1449.3	1460.7
157.5°	1482.4	1472.0	1478.2	1473.1	1478.2	1479.3	1490.6	1489.6	1502.0
160°	1521.6	1511.3	1515.4	1506.1	1511.3	1512.3	1526.7	1526.7	1539.1
162.5°	1556.7	1545.3	1549.5	1535.0	1540.2	1540.2	1558.7	1558.7	1571.1
165°	1586.6	1576.3	1579.4	1561.8	1567.0	1568.0	1586.6	1587.6	1599.0
167.5°	1613.5	1602.1	1603.1	1586.6	1590.7	1591.8	1608.3	1610.4	1623.8
170°	1634.1	1623.8	1623.8	1605.2	1608.3	1609.3	1626.9	1630.0	1643.4
172.5°	1650.6	1639.3	1637.2	1617.6	1615.5	1620.7	1638.2	1644.4	1656.8
175°	1663.0	1650.6	1647.5	1627.9	1620.7	1631.0	1648.5	1653.7	1668.2
177.5°	1668.2	1655.8	1653.7	1633.1	1632.0	1635.1	1651.6	1657.8	1670.2
180°	1651.6	1651.6	1651.6	1651.6	1651.6	1651.6	1651.6	1651.6	1651.6

(END OF REPORT)