Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P199529

Luminaire Tested: **S125-DIW-U1-2-40-0048-1D-UDD-1-5-W**

Issue Date: 3/3/2020

Report Generated By E9808136 / USAU2WHP6039969

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P199529
	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-U1-2-40-0048-1D-UDD-1-5-W
Description:	DEFINE 5-INCH DIRECT/INDIRECT WALL LED LUMINAIRE
	UPLIGHT LL1-4000K, SATIN WHITE DIFFUSER
	DOWNLIGHT LL2-4000K, SATIN WHITE DIFFUSER
Light Source:	-
	757G
Ballast/Driver:	ELECTRONIC DRIVERS

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7303.3 lumens
Efficiency:	N/A
Efficacy:	109.0 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):	67
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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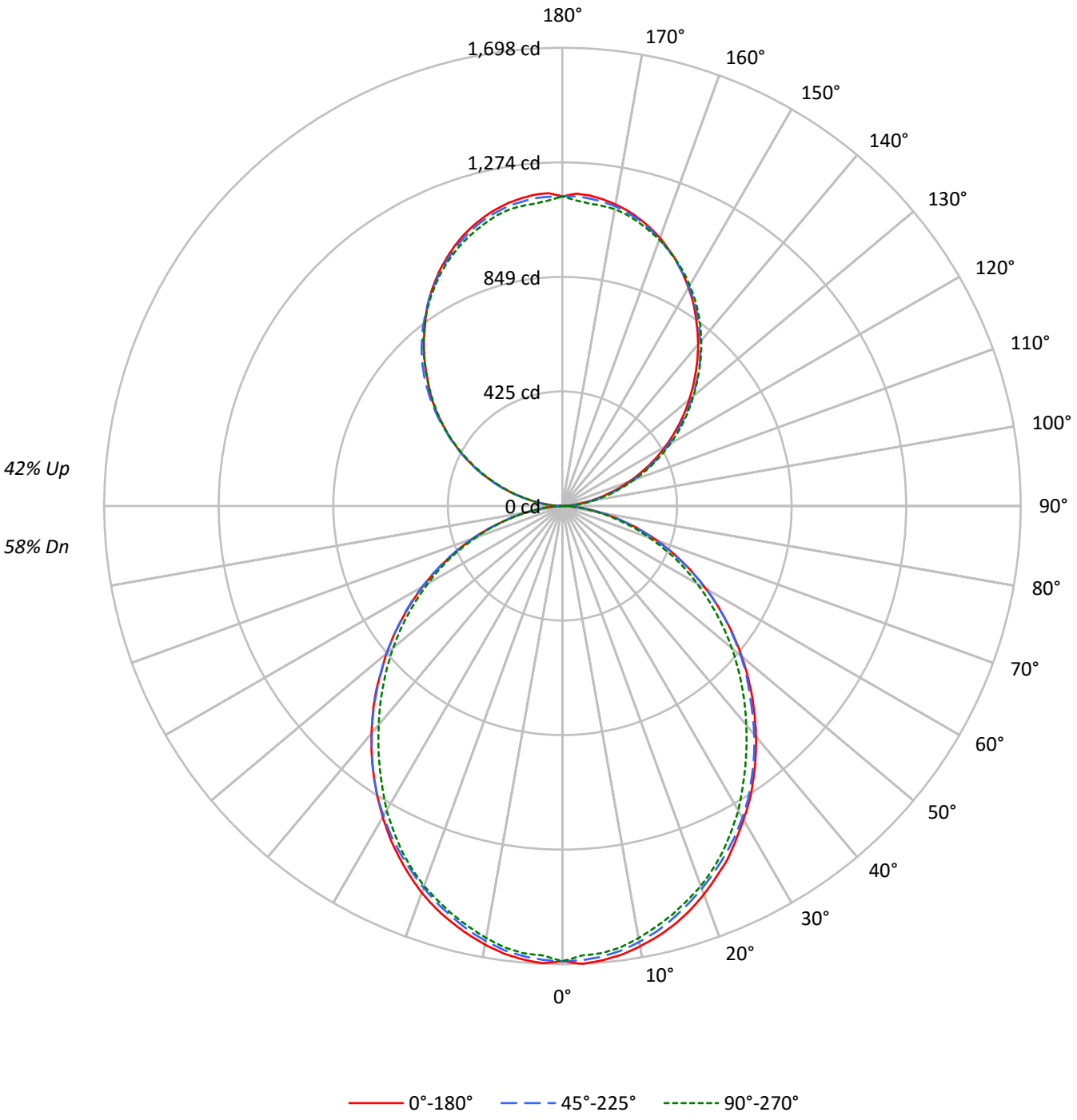
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58
1	100	95	91	88	93	89	86	82	77	74	72	66	64	63	56	55	54	49
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41
3	83	73	66	60	77	69	62	57	60	55	50	51	48	44	44	41	39	35
4	76	65	57	51	70	61	54	48	53	48	43	46	42	38	39	36	33	30
5	70	58	50	44	65	54	47	41	48	42	37	41	37	33	35	32	29	26
6	64	52	44	38	60	49	41	36	43	37	33	37	33	29	32	28	26	23
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	29	26	23	20
8	55	43	35	30	51	40	33	28	36	30	26	31	26	23	27	23	20	18
9	51	39	32	26	48	37	30	25	33	27	23	29	24	21	25	21	19	16
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	10671	10671	10671
5°	10646	9796	10626
10°	10474	9014	10435
15°	10261	8274	10195
20°	9980	7601	9933
25°	9681	6929	9598
30°	9310	6262	9238
35°	8952	5595	8847
40°	8556	4983	8438
45°	8138	4424	8019
50°	7692	3887	7546
55°	7217	3363	7046
60°	6705	2848	6525
65°	6146	2352	5926
70°	5489	1825	5230
75°	4604	1297	4285
80°	3488	807	3191
85°	2082	352	1827

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.6	2.2
10°-20°	445.3	6.1
20°-30°	654.2	9.0
30°-40°	755.5	10.3
40°-50°	748.9	10.3
50°-60°	649.5	8.9
60°-70°	474.4	6.5
70°-80°	259.3	3.5
80°-90°	67.4	0.9
90°-100°	57.1	0.8
100°-110°	205.4	2.8
110°-120°	365.5	5.0
120°-130°	487.4	6.7
130°-140°	551.4	7.6
140°-150°	544.7	7.5
150°-160°	461.3	6.3
160°-170°	308.9	4.2
170°-180°	108.4	1.5
0°-30°	1258.0	17.2
0°-40°	2013.5	27.6
0°-60°	3412.0	46.7
0°-90°	4213.1	57.7
90°-120°	628.0	8.6
90°-150°	2211.7	30.3
90°-180°	3090.0	42.3
0°-180°	7303.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1687	1687	1687	1687	1687	
5°	1690	1676	1664	1674	1687	160
15°	1605	1582	1568	1577	1595	452
25°	1446	1427	1409	1420	1434	665
35°	1234	1223	1181	1219	1219	771
45°	993	980	939	974	979	766
55°	740	739	697	726	723	662
65°	491	487	460	476	474	487
75°	253	251	231	236	235	269
85°	59	62	55	55	52	66
90°	2	4	2	3	2	6
95°	39	47	52	54	50	44
105°	174	188	195	202	199	186
115°	351	365	371	379	376	347
125°	527	540	549	557	551	471
135°	698	716	718	732	716	539
145°	860	870	876	881	879	538
155°	1000	999	1002	1008	1014	460
165°	1102	1097	1088	1102	1111	311
175°	1155	1144	1126	1145	1159	110
180°	1147	1147	1147	1147	1147	

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TEST NUMBER: P199529
CATALOG NUMBER: S125-DIW-U1-2-40-0048-1D-UDD-1-5-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1686.7	1686.7	1686.7	1686.7	1686.7	1686.7	1686.7	1686.7	1686.7
2.5°	1698.1	1680.6	1684.7	1681.6	1667.1	1679.5	1683.6	1677.5	1696.0
5°	1689.8	1672.3	1676.4	1672.3	1664.0	1670.2	1674.4	1668.2	1686.7
7.5°	1677.5	1658.9	1662.0	1657.8	1649.6	1654.7	1659.9	1653.7	1672.3
10°	1656.8	1639.3	1640.3	1635.1	1625.8	1632.0	1637.2	1632.0	1650.6
12.5°	1633.1	1614.5	1614.5	1606.2	1598.0	1603.1	1610.4	1606.2	1624.8
15°	1605.2	1585.6	1582.5	1577.3	1568.0	1574.2	1577.3	1576.3	1594.9
17.5°	1571.1	1550.5	1546.4	1545.3	1534.0	1542.2	1543.3	1540.2	1562.9
20°	1531.9	1512.3	1509.2	1508.2	1498.9	1505.1	1505.1	1500.9	1524.7
22.5°	1488.5	1470.0	1468.9	1466.9	1456.5	1463.8	1463.8	1457.6	1481.3
25°	1446.2	1423.5	1426.6	1421.4	1409.1	1419.4	1420.4	1410.1	1433.8
27.5°	1393.6	1376.0	1382.2	1372.9	1356.4	1369.8	1376.0	1360.5	1385.3
30°	1342.0	1323.4	1333.7	1317.2	1302.7	1315.1	1326.5	1306.9	1331.6
32.5°	1291.4	1269.7	1282.1	1261.4	1240.8	1256.3	1274.9	1256.3	1275.9
35°	1233.6	1216.0	1223.3	1201.6	1180.9	1196.4	1219.1	1201.6	1219.1
37.5°	1175.8	1161.3	1166.5	1140.7	1120.0	1135.5	1159.2	1145.8	1161.3
40°	1115.9	1105.6	1105.6	1079.8	1059.1	1073.6	1098.3	1091.1	1100.4
42.5°	1054.0	1049.8	1041.6	1018.9	999.2	1013.7	1037.4	1035.4	1039.5
45°	993.1	993.1	979.6	955.9	939.4	952.8	974.5	979.6	978.6
47.5°	930.1	935.2	923.9	898.1	879.5	892.9	912.5	921.8	911.5
50°	867.1	876.4	862.0	839.2	818.6	833.0	849.6	862.0	850.6
52.5°	804.1	815.5	800.0	778.3	757.7	771.1	787.6	802.1	787.6
55°	740.1	753.6	739.1	716.4	696.8	709.2	725.7	740.1	722.6
57.5°	677.2	689.6	677.2	654.5	635.9	647.2	664.8	676.1	660.7
60°	614.2	627.6	615.2	593.6	576.0	585.3	601.8	613.2	597.7
62.5°	552.3	563.6	550.2	532.7	519.2	523.4	538.8	552.3	535.8
65°	491.4	501.7	487.2	471.8	460.4	462.5	475.9	483.1	473.8
67.5°	431.5	442.8	427.4	412.9	399.5	403.6	415.0	425.3	413.9
70°	371.6	383.0	366.5	354.1	342.7	344.8	354.1	365.4	354.1
72.5°	312.8	322.1	310.7	296.3	288.0	290.1	295.2	305.6	294.2
75°	252.9	263.2	250.8	239.5	231.2	233.3	236.4	244.7	235.4
77.5°	197.2	204.4	196.1	186.8	181.7	182.7	183.7	189.9	181.7
80°	145.6	151.7	146.6	139.4	135.2	135.2	135.2	140.4	133.2
82.5°	99.1	105.3	101.2	96.0	92.9	89.8	91.9	96.0	89.8
85°	58.8	64.0	61.9	56.8	54.7	52.6	54.7	56.8	51.6
87.5°	26.8	31.0	27.9	22.7	20.6	18.6	18.6	21.7	17.5
90°	2.1	5.2	4.1	3.1	2.1	2.1	3.1	4.1	2.1
92.5°	13.6	18.6	18.6	16.5	20.1	22.9	28.0	28.0	24.4
95°	39.4	44.5	46.6	48.0	51.6	53.1	54.5	54.5	50.2
97.5°	67.4	74.6	76.0	78.2	82.5	83.2	85.3	86.0	81.0
100°	98.9	107.5	109.0	111.8	116.9	117.6	120.5	121.9	116.9
102.5°	134.8	144.8	147.0	149.1	152.7	155.6	159.2	161.3	155.6
105°	174.2	186.4	187.9	190.7	195.0	197.9	202.2	203.6	198.6
107.5°	218.0	227.3	231.6	233.0	237.3	240.2	245.9	246.6	242.3
110°	261.0	269.6	275.3	276.8	281.1	283.9	289.7	289.7	286.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	*305.4*	314.8	319.8	321.2	326.2	328.4	334.1	334.8	331.2
115°	*350.6*	359.2	364.9	366.4	370.7	373.5	378.6	380.0	376.4
117.5°	*395.8*	404.4	408.7	411.5	416.6	418.7	421.6	423.7	420.2
120°	*439.5*	448.1	451.7	456.0	461.0	463.2	467.5	466.0	463.9
122.5°	*484.0*	491.9	495.4	500.5	506.2	506.9	509.8	509.1	507.6
125°	*527.0*	533.4	539.9	542.8	549.2	549.2	557.1	550.6	550.6
127.5°	*570.7*	575.7	584.3	585.8	591.5	592.2	601.6	592.2	594.4
130°	*613.7*	617.3	628.8	628.8	633.1	634.5	646.7	633.8	636.7
132.5°	*656.0*	658.9	672.5	671.1	675.4	676.8	690.5	675.4	674.7
135°	*698.3*	699.8	715.6	713.4	717.7	719.9	732.0	715.6	716.3
137.5°	*739.9*	739.2	755.7	755.0	759.3	760.7	772.2	752.8	757.9
140°	*782.2*	777.2	794.4	795.9	800.2	801.6	809.5	794.4	798.7
142.5°	*820.9*	818.8	831.7	833.9	839.6	839.6	846.8	831.7	837.4
145°	*860.4*	855.4	869.7	869.7	876.2	875.4	881.2	871.1	879.0
147.5°	*899.1*	892.6	904.8	905.6	911.3	911.3	916.3	906.3	916.3
150°	*934.2*	928.5	937.1	937.8	943.6	942.8	947.9	942.8	951.4
152.5°	*967.9*	962.2	967.9	967.2	974.4	972.2	978.7	974.4	984.4
155°	*1000.2*	993.7	998.8	995.9	1001.6	1000.9	1008.1	1006.6	1014.5
157.5°	*1029.6*	1022.4	1026.7	1023.1	1026.7	1027.4	1035.3	1034.6	1043.2
160°	*1056.8*	1049.7	1052.5	1046.1	1049.7	1050.4	1060.4	1060.4	1069.0
162.5°	*1081.2*	1073.3	1076.2	1066.2	1069.7	1069.7	1082.6	1082.6	1091.3
165°	*1102.0*	1094.8	1097.0	1084.8	1088.4	1089.1	1102.0	1102.7	1110.6
167.5°	*1120.6*	1112.8	1113.5	1102.0	1104.9	1105.6	1117.1	1118.5	1127.8
170°	*1135.0*	1127.8	1127.8	1114.9	1117.1	1117.8	1130.0	1132.1	1141.4
172.5°	*1146.5*	1138.6	1137.1	1123.5	1122.1	1125.7	1137.9	1142.2	1150.8
175°	*1155.1*	1146.5	1144.3	1130.7	1125.7	1132.8	1145.0	1148.6	1158.6
177.5°	*1158.6*	1150.0	1148.6	1134.3	1133.6	1135.7	1147.2	1151.5	1160.1
180°	*1147.2*	1147.2	1147.2	1147.2	1147.2	1147.2	1147.2	1147.2	1147.2

(END OF REPORT)