

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: P199541

Luminaire Tested: **S125-DIP-U2-1-40-X-X0048-1D-UDD-1-5-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199541
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-DIP-U2-1-40-X-X0048-1D-UDD-1-5-W
Description: DEFINE 5-INCH DIRECT/INDIRECT PENDANT LED LUMINAIRE
UPLIGHT LL2-4000K, SATIN WHITE DIFFUSER
DOWNLIGHT LL1-4000K, SATIN WHITE DIFFUSER
Light Source: -
757G
Ballast/Driver: ELECTRONIC DRIVERS

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7375.1 lumens
Efficiency: N/A
Efficacy: 112.6 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

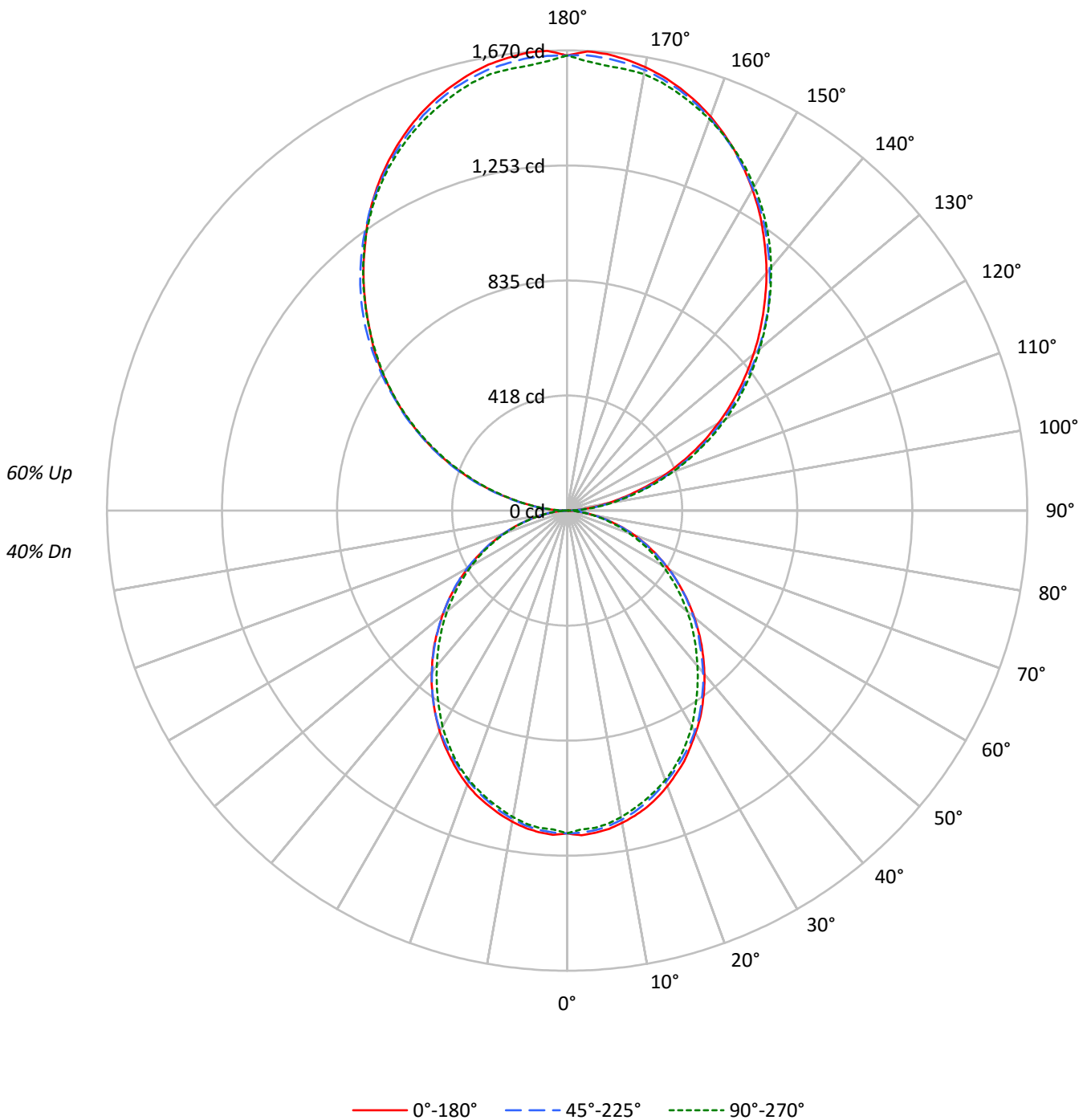
Input Watts (W): 65.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40				
1	96	91	87	84	87	83	80	77	68	66	64	54	53	51	41	40	39	34				
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	36	35	33	28				
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28	24				
4	73	62	54	48	66	57	50	45	47	42	38	37	34	31	29	26	24	21				
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	23	21	18				
6	61	49	42	36	56	45	38	33	38	32	28	30	27	24	24	21	19	16				
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17	14				
8	52	40	33	28	48	37	30	26	31	26	22	25	21	19	20	17	15	12				
9	49	37	30	25	44	34	27	23	28	23	20	23	19	17	18	16	14	11				
10	46	34	27	22	41	31	25	21	26	21	18	21	18	15	17	14	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	7412	7412	7412
5°	7394	6804	7381
10°	7275	6261	7248
15°	7127	5747	7081
20°	6932	5280	6899
25°	6724	4812	6666
30°	6466	4350	6416
35°	6217	3886	6145
40°	5943	3461	5860
45°	5652	3073	5570
50°	5343	2700	5241
55°	5013	2336	4894
60°	4657	1978	4531
65°	4269	1634	4116
70°	3812	1268	3632
75°	3199	901	2976
80°	2422	560	2216
85°	1448	244	1268



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.2	1.5
10°-20°	309.3	4.2
20°-30°	454.4	6.2
30°-40°	524.8	7.1
40°-50°	520.2	7.1
50°-60°	451.2	6.1
60°-70°	329.5	4.5
70°-80°	180.1	2.4
80°-90°	46.8	0.6
90°-100°	81.9	1.1
100°-110°	295.8	4.0
110°-120°	526.3	7.1
120°-130°	701.8	9.5
130°-140°	793.9	10.8
140°-150°	784.3	10.6
150°-160°	664.1	9.0
160°-170°	444.7	6.0
170°-180°	156.1	2.1
0°-30°	873.8	11.8
0°-40°	1398.5	19.0
0°-60°	2369.8	32.1
0°-90°	2926.2	39.7
90°-120°	903.9	12.3
90°-150°	3183.9	43.2
90°-180°	4449.0	60.3
0°-180°	7375.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1172	1172	1172	1172	1172	
5°	1174	1164	1156	1163	1172	111
15°	1115	1099	1089	1096	1108	314
25°	1004	991	979	987	996	462
35°	857	850	820	847	847	536
45°	690	680	652	677	680	532
55°	514	513	484	504	502	460
65°	341	338	320	330	329	338
75°	176	174	161	164	164	187
85°	41	43	38	38	36	46
90°	1	3	1	2	1	6
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: P199541

CATALOG NUMBER: S125-DIP-U2-1-40-X-X0048-1D-UDD-1-5-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6
2.5°	1179.4	1167.3	1170.1	1168.0	1157.9	1166.5	1169.4	1165.1	1178.0
5°	1173.7	1161.5	1164.4	1161.5	1155.8	1160.1	1163.0	1158.6	1171.6
7.5°	1165.1	1152.2	1154.3	1151.5	1145.7	1149.3	1152.9	1148.6	1161.5
10°	1150.8	1138.6	1139.3	1135.7	1129.3	1133.6	1137.1	1133.6	1146.5
12.5°	1134.3	1121.4	1121.4	1115.6	1109.9	1113.5	1118.5	1115.6	1128.5
15°	1114.9	1101.3	1099.1	1095.6	1089.1	1093.4	1095.6	1094.8	1107.7
17.5°	1091.3	1076.9	1074.0	1073.3	1065.4	1071.2	1071.9	1069.7	1085.5
20°	1064.0	1050.4	1048.2	1047.5	1041.1	1045.4	1045.4	1042.5	1059.0
22.5°	1033.9	1021.0	1020.3	1018.8	1011.7	1016.7	1016.7	1012.4	1028.9
25°	1004.5	988.7	990.9	987.3	978.7	985.9	986.6	979.4	995.9
27.5°	967.9	955.7	960.0	953.6	942.1	951.4	955.7	945.0	962.2
30°	932.1	919.2	926.3	914.9	904.8	913.4	921.3	907.7	924.9
32.5°	896.9	881.9	890.5	876.2	861.8	872.6	885.5	872.6	886.2
35°	856.8	844.6	849.6	834.6	820.2	831.0	846.8	834.6	846.8
37.5°	816.6	806.6	810.2	792.3	777.9	788.7	805.2	795.9	806.6
40°	775.1	767.9	767.9	750.0	735.6	745.7	762.9	757.9	764.3
42.5°	732.0	729.2	723.4	707.7	694.0	704.1	720.6	719.1	722.0
45°	689.7	689.7	680.4	663.9	652.5	661.8	676.8	680.4	679.7
47.5°	646.0	649.6	641.7	623.8	610.9	620.2	633.8	640.3	633.1
50°	602.3	608.7	598.7	582.9	568.6	578.6	590.1	598.7	590.8
52.5°	558.5	566.4	555.7	540.6	526.3	535.6	547.1	557.1	547.1
55°	514.1	523.4	513.4	497.6	484.0	492.6	504.0	514.1	501.9
57.5°	470.3	478.9	470.3	454.6	441.7	449.5	461.7	469.6	458.9
60°	426.6	435.9	427.3	412.3	400.1	406.5	418.0	425.9	415.1
62.5°	383.6	391.5	382.2	370.0	360.6	363.5	374.3	383.6	372.1
65°	341.3	348.5	338.4	327.7	319.8	321.2	330.5	335.5	329.1
67.5°	299.7	307.6	296.8	286.8	277.5	280.3	288.2	295.4	287.5
70°	258.1	266.0	254.5	245.9	238.0	239.5	245.9	253.8	245.9
72.5°	217.2	223.7	215.8	205.8	200.0	201.5	205.1	212.2	204.3
75°	175.7	182.8	174.2	166.3	160.6	162.0	164.2	169.9	163.5
77.5°	136.9	142.0	136.2	129.8	126.2	126.9	127.6	131.9	126.2
80°	101.1	105.4	101.8	96.8	93.9	93.9	93.9	97.5	92.5
82.5°	68.8	73.1	70.3	66.7	64.5	62.4	63.8	66.7	62.4
85°	40.9	44.5	43.0	39.4	38.0	36.6	38.0	39.4	35.8
87.5°	18.6	21.5	19.4	15.8	14.3	12.9	12.9	15.1	12.2
90°	1.4	3.6	2.9	2.2	1.4	1.4	2.2	2.9	1.4
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)