

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: P199526

Luminaire Tested: **S125-DIP-U1-2-30-X-X0048-1D-UDD-1-NA-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199526
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-DIP-U1-2-30-X-X0048-1D-UDD-1-NA-W
Description: DEFINE 5-INCH DIRECT/INDIRECT PENDANT LED LUMINAIRE
UPLIGHT LL1-3000K, NO LENS
DOWNLIGHT LL2-3000K, SATIN WHITE DIFFUSER
Light Source: -
757G
Ballast/Driver: ELECTRONIC DRIVERS

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7466.3 lumens
Efficiency: N/A
Efficacy: 111.4 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

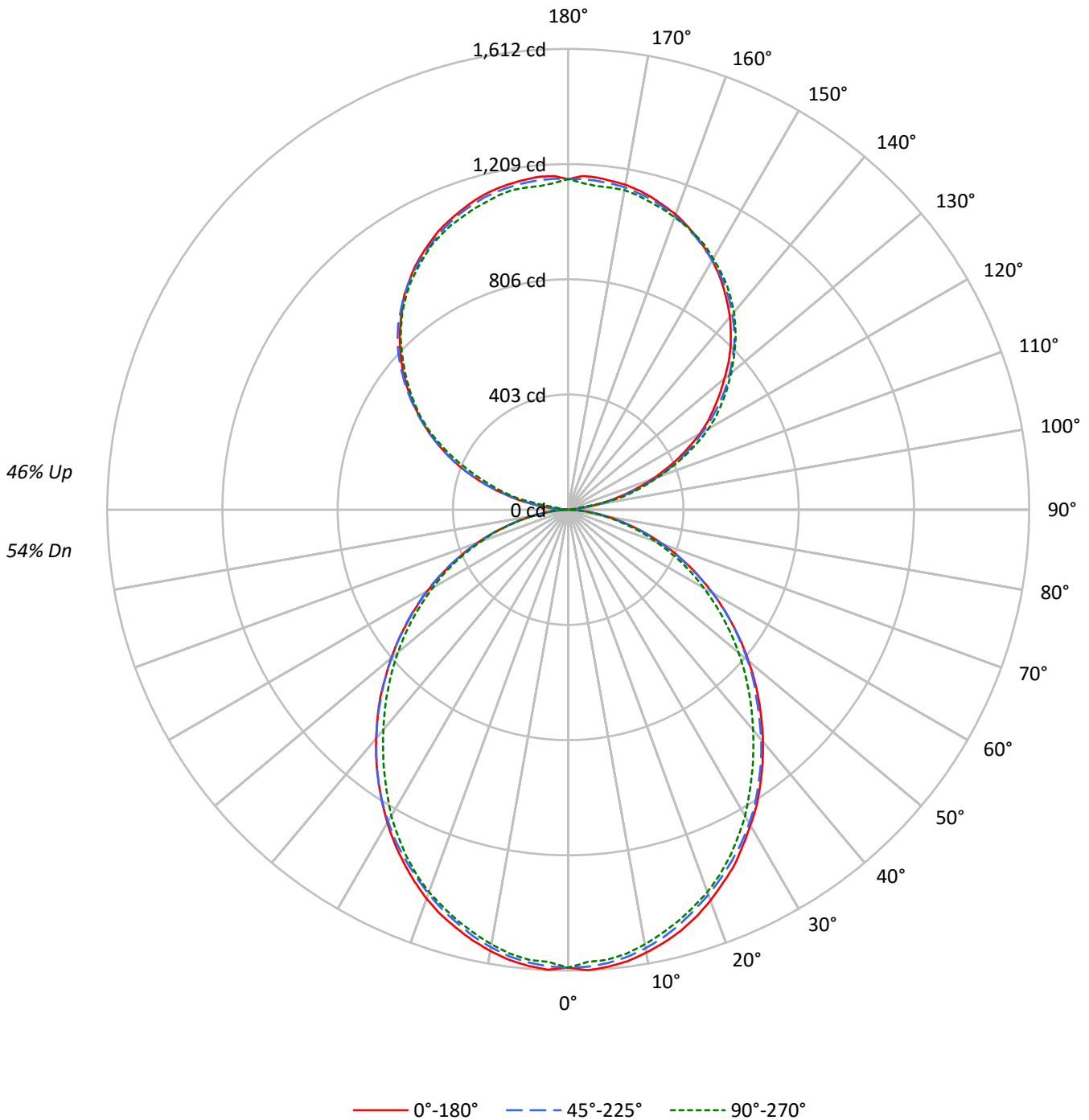
Input Watts (W): 67
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P199526

CATALOG NUMBER: S125-DIP-U1-2-30-X-X0048-1D-UDD-1-NA-W

Luminous Intensity Polar Plot





TEST NUMBER: P199526

CATALOG NUMBER: S125-DIP-U1-2-30-X-X0048-1D-UDD-1-NA-W

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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	54				
1	99	94	90	87	91	88	84	81	75	73	70	63	62	60	53	51	50	45				
2	90	82	76	71	83	77	71	67	66	62	58	56	53	50	46	44	42	38				
3	82	73	65	59	76	68	61	56	58	53	49	49	46	43	41	39	36	32				
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	31	28				
5	69	57	49	43	64	53	46	41	46	41	36	40	35	32	33	30	27	24				
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	30	27	24	21				
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	21	19				
8	55	42	34	29	51	40	33	28	35	29	25	30	25	22	25	22	19	17				
9	51	39	31	26	47	36	29	25	32	26	22	27	23	20	23	20	17	15				
10	48	35	28	23	44	33	27	22	29	24	20	25	21	18	22	18	16	14				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	10133	10133	10133
5°	10109	9302	10091
10°	9946	8560	9909
15°	9744	7858	9681
20°	9477	7218	9432
25°	9193	6579	9114
30°	8840	5947	8772
35°	8500	5313	8400
40°	8125	4732	8012
45°	7727	4200	7615
50°	7305	3691	7165
55°	6853	3194	6691
60°	6367	2705	6196
65°	5836	2234	5627
70°	5213	1733	4966
75°	4373	1231	4069
80°	3311	766	3028
85°	1980	334	1735



TEST NUMBER: P199526

CATALOG NUMBER: S125-DIP-U1-2-30-X-X0048-1D-UDD-1-NA-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.6	2.0
10°-20°	422.8	5.7
20°-30°	621.2	8.3
30°-40°	717.4	9.6
40°-50°	711.1	9.5
50°-60°	616.8	8.3
60°-70°	450.5	6.0
70°-80°	246.2	3.3
80°-90°	64.0	0.9
90°-100°	36.8	0.5
100°-110°	245.5	3.3
110°-120°	450.4	6.0
120°-130°	584.0	7.8
130°-140°	634.5	8.5
140°-150°	599.7	8.0
150°-160°	487.8	6.5
160°-170°	317.2	4.2
170°-180°	109.7	1.5
0°-30°	1194.6	16.0
0°-40°	1912.0	25.6
0°-60°	3239.9	43.4
0°-90°	4000.6	53.6
90°-120°	732.8	9.8
90°-150°	2551.0	34.2
90°-180°	3466.0	46.4
0°-180°	7466.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1602	1602	1602	1602	1602	
5°	1605	1592	1580	1590	1602	152
15°	1524	1503	1489	1498	1514	429
25°	1373	1355	1338	1349	1362	631
35°	1171	1162	1121	1158	1158	733
45°	943	930	892	925	929	727
55°	703	702	662	689	686	629
65°	467	463	437	452	450	462
75°	240	238	220	224	224	256
85°	56	59	52	52	49	63
90°	2	4	2	3	2	5
95°	24	8	8	12	56	36
105°	202	214	229	253	258	215
115°	424	442	455	477	475	418
125°	624	643	658	671	667	558
135°	803	821	827	844	833	618
145°	947	955	964	972	972	592
155°	1057	1053	1058	1066	1075	487
165°	1131	1124	1113	1131	1140	319
175°	1166	1155	1136	1157	1169	111
180°	1156	1156	1156	1156	1156	



TEST NUMBER: P199526

CATALOG NUMBER: S125-DIP-U1-2-30-X-X0048-1D-UDD-1-NA-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7
2.5°	1612.5	1595.8	1599.7	1596.8	1583.1	1594.8	1598.7	1592.9	1610.5
5°	1604.6	1588.0	1591.9	1588.0	1580.1	1586.0	1589.9	1584.0	1601.7
7.5°	1592.9	1575.2	1578.2	1574.2	1566.4	1571.3	1576.2	1570.3	1588.0
10°	1573.3	1556.6	1557.6	1552.7	1543.9	1549.7	1554.6	1549.7	1567.4
12.5°	1550.7	1533.1	1533.1	1525.2	1517.4	1522.3	1529.2	1525.2	1542.9
15°	1524.3	1505.6	1502.7	1497.8	1489.0	1494.8	1497.8	1496.8	1514.4
17.5°	1491.9	1472.3	1468.4	1467.4	1456.6	1464.5	1465.4	1462.5	1484.1
20°	1454.7	1436.0	1433.1	1432.1	1423.3	1429.2	1429.2	1425.2	1447.8
22.5°	1413.5	1395.8	1394.9	1392.9	1383.1	1390.0	1390.0	1384.1	1406.6
25°	1373.3	1351.7	1354.7	1349.8	1338.0	1347.8	1348.8	1339.0	1361.5
27.5°	1323.3	1306.6	1312.5	1303.7	1288.0	1300.8	1306.6	1291.9	1315.5
30°	1274.3	1256.7	1266.5	1250.8	1237.0	1248.8	1259.6	1241.0	1264.5
32.5°	1226.3	1205.7	1217.4	1197.8	1178.2	1192.9	1210.6	1192.9	1211.6
35°	1171.4	1154.7	1161.6	1141.0	1121.4	1136.1	1157.6	1141.0	1157.6
37.5°	1116.5	1102.8	1107.7	1083.2	1063.5	1078.2	1100.8	1088.1	1102.8
40°	1059.6	1049.8	1049.8	1025.3	1005.7	1019.4	1043.0	1036.1	1044.9
42.5°	1000.8	996.9	989.0	967.5	948.9	962.6	985.1	983.2	987.1
45°	943.0	943.0	930.2	907.7	892.0	904.7	925.3	930.2	929.3
47.5°	883.2	888.1	877.3	852.8	835.2	847.9	866.5	875.3	865.5
50°	823.4	832.2	818.5	796.9	777.3	791.0	806.7	818.5	807.7
52.5°	763.6	774.4	759.7	739.1	719.5	732.2	747.9	761.6	747.9
55°	702.8	715.6	701.8	680.3	661.7	673.4	689.1	702.8	686.2
57.5°	643.0	654.8	643.0	621.5	603.8	614.6	631.3	642.0	627.3
60°	583.2	596.0	584.2	563.6	547.0	555.8	571.5	582.3	567.6
62.5°	524.4	535.2	522.5	505.8	493.1	497.0	511.7	524.4	508.7
65°	466.6	476.4	462.7	448.0	437.2	439.1	451.9	458.7	449.9
67.5°	409.7	420.5	405.8	392.1	379.3	383.3	394.1	403.9	393.1
70°	352.9	363.7	348.0	336.2	325.4	327.4	336.2	347.0	336.2
72.5°	297.0	305.8	295.0	281.3	273.5	275.4	280.3	290.1	279.4
75°	240.2	250.0	238.2	227.4	219.6	221.5	224.5	232.3	223.5
77.5°	187.2	194.1	186.2	177.4	172.5	173.5	174.5	180.4	172.5
80°	138.2	144.1	139.2	132.3	128.4	128.4	128.4	133.3	126.4
82.5°	94.1	100.0	96.1	91.2	88.2	85.3	87.2	91.2	85.3
85°	55.9	60.8	58.8	53.9	52.0	50.0	52.0	53.9	49.0
87.5°	25.5	29.4	26.5	21.6	19.6	17.6	17.6	20.6	16.7
90°	2.0	4.9	3.9	2.9	2.0	2.0	2.9	3.9	2.0
92.5°	3.4	4.8	4.8	5.4	5.4	6.1	6.8	8.2	23.1
95°	24.5	27.2	7.5	8.2	8.2	8.9	11.6	66.0	56.5
97.5°	56.5	72.2	23.8	14.3	12.9	19.1	73.5	104.8	99.4
100°	100.8	112.3	113.7	74.2	50.4	104.2	145.0	156.6	149.1
102.5°	149.1	162.0	158.6	172.3	177.0	192.0	195.4	210.4	204.2
105°	201.5	215.8	213.8	227.4	228.8	245.8	252.6	261.4	258.0
107.5°	256.7	266.9	272.3	281.2	280.5	298.9	312.5	316.6	313.2
110°	313.2	320.0	330.2	336.3	336.3	354.7	370.4	371.1	367.6



TEST NUMBER: P199526

CATALOG NUMBER: S125-DIP-U1-2-30-X-X0048-1D-UDD-1-NA-W

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	367.0	378.5	388.1	395.6	394.2	413.9	424.8	426.9	422.8
115°	424.2	428.9	441.9	452.8	454.8	469.8	477.3	479.3	475.2
117.5°	476.6	484.1	492.2	505.2	512.0	521.5	527.0	530.4	526.3
120°	532.4	537.2	541.9	554.2	566.5	571.9	576.0	578.7	575.3
122.5°	580.7	584.2	594.4	602.5	614.8	618.9	625.0	624.3	621.6
125°	623.6	628.4	643.4	648.2	658.4	663.8	671.3	667.2	667.2
127.5°	668.6	672.7	691.7	692.4	701.9	708.1	717.6	710.8	711.5
130°	712.8	719.6	736.7	736.7	744.1	751.0	761.9	751.6	754.4
132.5°	759.8	761.9	777.5	778.2	785.0	791.8	804.7	791.1	793.8
135°	802.7	800.7	821.1	817.7	827.2	831.3	844.2	827.9	832.7
137.5°	841.5	836.7	858.5	855.1	865.3	866.0	879.6	864.0	869.4
140°	879.6	874.2	892.6	890.5	902.1	900.7	911.0	898.0	905.5
142.5°	913.7	907.5	925.2	924.6	933.4	933.4	942.3	931.4	942.3
145°	947.0	938.9	955.2	954.5	964.1	963.4	971.5	961.3	971.5
147.5°	978.4	970.2	983.1	981.8	989.9	990.6	997.4	991.3	1002.2
150°	1006.9	999.5	1007.6	1006.9	1014.4	1015.1	1021.9	1019.2	1027.4
152.5°	1032.8	1026.0	1030.1	1028.7	1039.6	1035.5	1043.7	1042.4	1051.2
155°	1056.7	1049.8	1053.2	1050.5	1058.0	1057.3	1066.2	1064.8	1075.0
157.5°	1078.4	1070.9	1073.7	1069.6	1075.0	1075.0	1085.2	1085.2	1092.7
160°	1099.5	1089.3	1092.7	1085.9	1088.0	1090.7	1102.9	1102.9	1109.8
162.5°	1114.5	1107.7	1109.8	1100.2	1102.3	1103.6	1117.9	1117.9	1126.1
165°	1130.9	1122.0	1124.1	1112.5	1113.2	1116.6	1130.9	1131.5	1140.4
167.5°	1143.8	1134.9	1134.3	1122.7	1126.1	1126.8	1140.4	1141.1	1150.6
170°	1154.0	1144.5	1144.5	1132.2	1134.9	1133.6	1147.9	1149.9	1158.1
172.5°	1159.5	1152.6	1150.6	1137.0	1136.3	1138.4	1153.3	1156.1	1164.2
175°	1166.3	1158.1	1154.7	1141.8	1136.3	1143.1	1156.7	1159.5	1169.0
177.5°	1168.3	1160.1	1157.4	1143.8	1143.8	1145.2	1158.8	1160.8	1168.3
180°	1156.1	1156.1	1156.1	1156.1	1156.1	1156.1	1156.1	1156.1	1156.1

(END OF REPORT)