

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: P199524

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199524
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-DIW-U1-1-40-0048-1D-UDD-1-NA-W
Description: DEFINE 5-INCH DIRECT/INDIRECT WALL LED LUMINAIRE
UPLIGHT LL1-4000K, NO LENS
DOWNLIGHT LL1-4000K, SATIN WHITE DIFFUSER
Light Source: -
757G
Ballast/Driver: ELECTRONIC DRIVERS

Summary

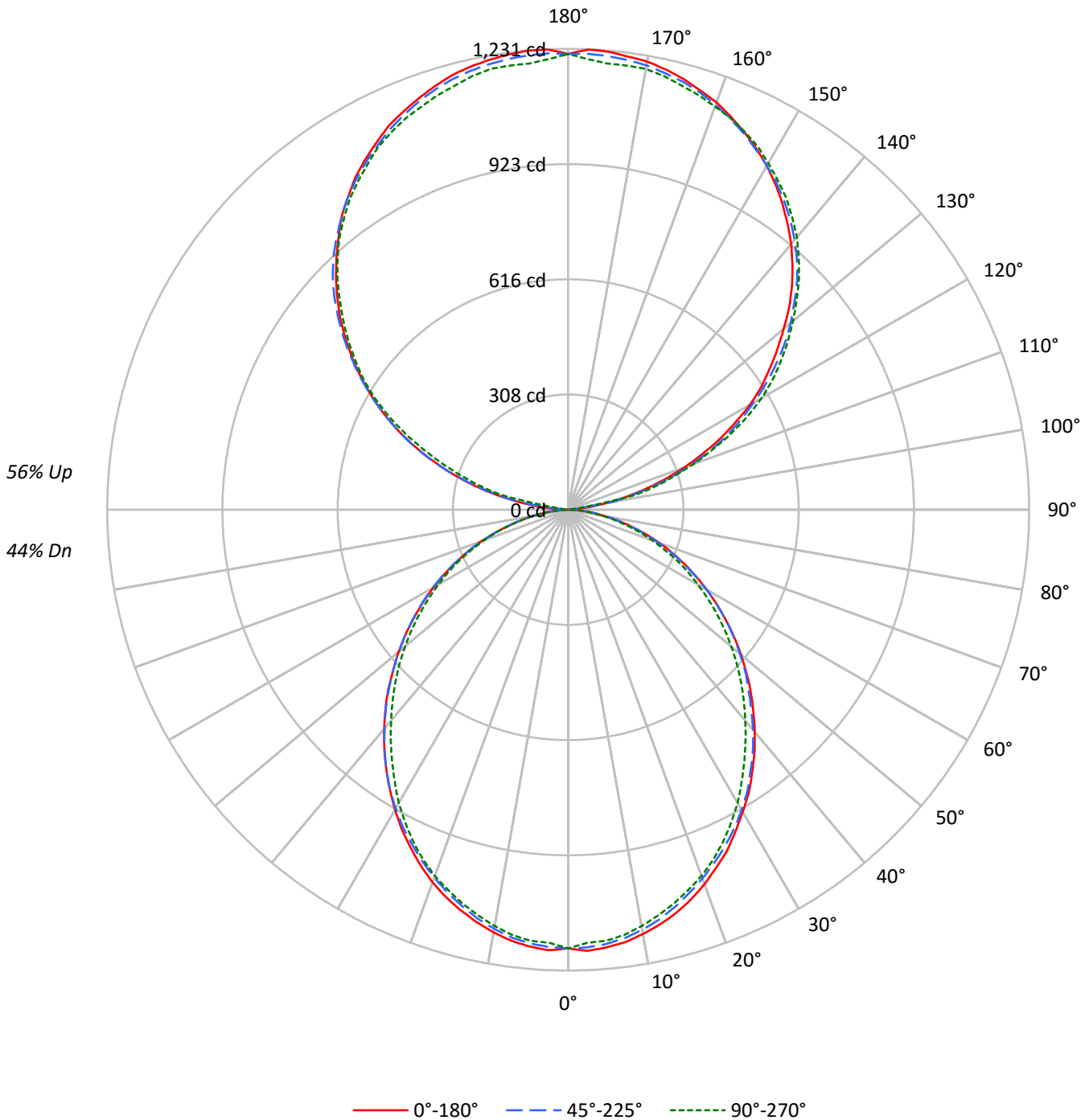
Lumens per Lamp: N/A
Luminaire Lumens: 6575.8 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4.08' x H: 0.38')
CIE Type: General Diffuse

Input Watts (W): 52
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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44				
1	97	92	89	85	88	85	81	79	70	68	66	57	56	54	45	44	43	38				
2	88	81	75	70	80	74	69	64	62	58	55	50	48	45	40	38	36	32				
3	80	71	64	58	73	65	59	54	55	50	46	45	41	38	35	33	31	27				
4	73	63	55	49	67	58	51	46	48	43	39	40	36	33	32	29	27	23				
5	67	56	48	42	62	52	45	39	43	38	34	36	32	29	29	26	23	20				
6	62	50	42	36	57	46	39	34	39	34	30	32	28	25	26	23	21	18				
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	21	18	16				
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16	14				
9	50	37	30	25	45	35	28	24	30	24	21	25	21	18	20	17	15	13				
10	46	34	27	22	42	32	25	21	27	22	19	23	19	16	19	16	13	12				

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	1.7
10°-20°	309.3	4.7
20°-30°	454.4	6.9
30°-40°	524.8	8.0
40°-50°	520.2	7.9
50°-60°	451.2	6.9
60°-70°	329.5	5.0
70°-80°	180.1	2.7
80°-90°	46.8	0.7
90°-100°	38.7	0.6
100°-110°	258.6	3.9
110°-120°	474.3	7.2
120°-130°	615.0	9.4
130°-140°	668.2	10.2
140°-150°	631.5	9.6
150°-160°	513.7	7.8
160°-170°	334.1	5.1
170°-180°	115.5	1.8
0°-30°	873.8	13.3
0°-40°	1398.5	21.3
0°-60°	2369.8	36.0
0°-90°	2926.2	44.5
90°-120°	771.6	11.7
90°-150°	2686.3	40.9
90°-180°	3650.0	55.5
0°-180°	6575.8	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	3
95°	26	8	9	12	60	38
105°	212	225	241	266	272	226
115°	447	465	479	503	500	440
125°	657	678	693	707	703	588
135°	845	865	871	889	877	651
145°	997	1006	1015	1023	1023	624
155°	1113	1109	1114	1123	1132	513
165°	1191	1184	1172	1191	1201	336
175°	1228	1216	1197	1218	1231	117
180°	1217	1217	1217	1217	1217	



TEST NUMBER: P199524

CATALOG NUMBER: S125-DIW-U1-1-40-0048-1D-UDD-1-NA-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°	3.6	5.0	5.0	5.7	5.7	6.5	7.2	8.6	24.4
95°	25.8	28.7	7.9	8.6	8.6	9.3	12.2	69.5	59.5
97.5°	59.5	76.0	25.1	15.1	13.6	20.1	77.4	110.4	104.7
100°	106.1	118.3	119.7	78.2	53.1	109.7	152.7	164.9	157.0
102.5°	157.0	170.6	167.1	181.4	186.4	202.2	205.8	221.5	215.1
105°	212.2	227.3	225.1	239.5	240.9	258.8	266.0	275.3	271.7
107.5°	270.3	281.1	286.8	296.1	295.4	314.8	329.1	333.4	329.8
110°	329.8	337.0	347.7	354.2	354.2	373.5	390.0	390.8	387.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	386.5	398.6	408.7	416.6	415.1	435.9	447.4	449.5	445.2
115°	446.7	451.7	465.3	476.8	478.9	494.7	502.6	504.8	500.5
117.5°	501.9	509.8	518.4	532.0	539.2	549.2	554.9	558.5	554.2
120°	560.7	565.7	570.7	583.6	596.5	602.3	606.6	609.4	605.9
122.5°	611.6	615.2	625.9	634.5	647.4	651.7	658.2	657.5	654.6
125°	656.8	661.8	677.6	682.6	693.3	699.1	706.9	702.6	702.6
127.5°	704.1	708.4	728.5	729.2	739.2	745.7	755.7	748.5	749.2
130°	750.7	757.9	775.8	775.8	783.7	790.8	802.3	791.6	794.4
132.5°	800.2	802.3	818.8	819.5	826.7	833.9	847.5	833.1	836.0
135°	845.3	843.2	864.7	861.1	871.1	875.4	889.1	871.9	876.9
137.5°	886.2	881.2	904.1	900.5	911.3	912.0	926.3	909.9	915.6
140°	926.3	920.6	940.0	937.8	950.0	948.6	959.3	945.7	953.6
142.5°	962.2	955.7	974.4	973.7	983.0	983.0	992.3	980.8	992.3
145°	997.3	988.7	1005.9	1005.2	1015.3	1014.5	1023.1	1012.4	1023.1
147.5°	1030.3	1021.7	1035.3	1033.9	1042.5	1043.2	1050.4	1043.9	1055.4
150°	1060.4	1052.5	1061.1	1060.4	1068.3	1069.0	1076.2	1073.3	1081.9
152.5°	1087.7	1080.5	1084.8	1083.4	1094.8	1090.5	1099.1	1097.7	1107.0
155°	1112.8	1105.6	1109.2	1106.3	1114.2	1113.5	1122.8	1121.4	1132.1
157.5°	1135.7	1127.8	1130.7	1126.4	1132.1	1132.1	1142.9	1142.9	1150.8
160°	1157.9	1147.2	1150.8	1143.6	1145.7	1148.6	1161.5	1161.5	1168.7
162.5°	1173.7	1166.5	1168.7	1158.6	1160.8	1162.2	1177.3	1177.3	1185.9
165°	1190.9	1181.6	1183.7	1171.6	1172.3	1175.9	1190.9	1191.6	1201.0
167.5°	1204.5	1195.2	1194.5	1182.3	1185.9	1186.6	1201.0	1201.7	1211.7
170°	1215.3	1205.3	1205.3	1192.3	1195.2	1193.8	1208.8	1211.0	1219.6
172.5°	1221.0	1213.9	1211.7	1197.4	1196.6	1198.8	1214.6	1217.4	1226.0
175°	1228.2	1219.6	1216.0	1202.4	1196.6	1203.8	1218.2	1221.0	1231.1
177.5°	1230.3	1221.7	1218.9	1204.5	1204.5	1206.0	1220.3	1222.5	1230.3
180°	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4

(END OF REPORT)