

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: P199519

Luminaire Tested: **S125-DIW-U1-1-30-0048-1D-UDD-1-5-W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199519  
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-U1-1-30-0048-1D-UDD-1-5-W  
Description: DEFINE 5-INCH DIRECT/INDIRECT WALL LED LUMINAIRE  
UPLIGHT LL1-3000K, SATIN WHITE DIFFUSER  
DOWNLIGHT LL1-3000K, SATIN WHITE DIFFUSER  
Light Source: -  
757G  
Ballast/Driver: ELECTRONIC DRIVERS

**Summary**

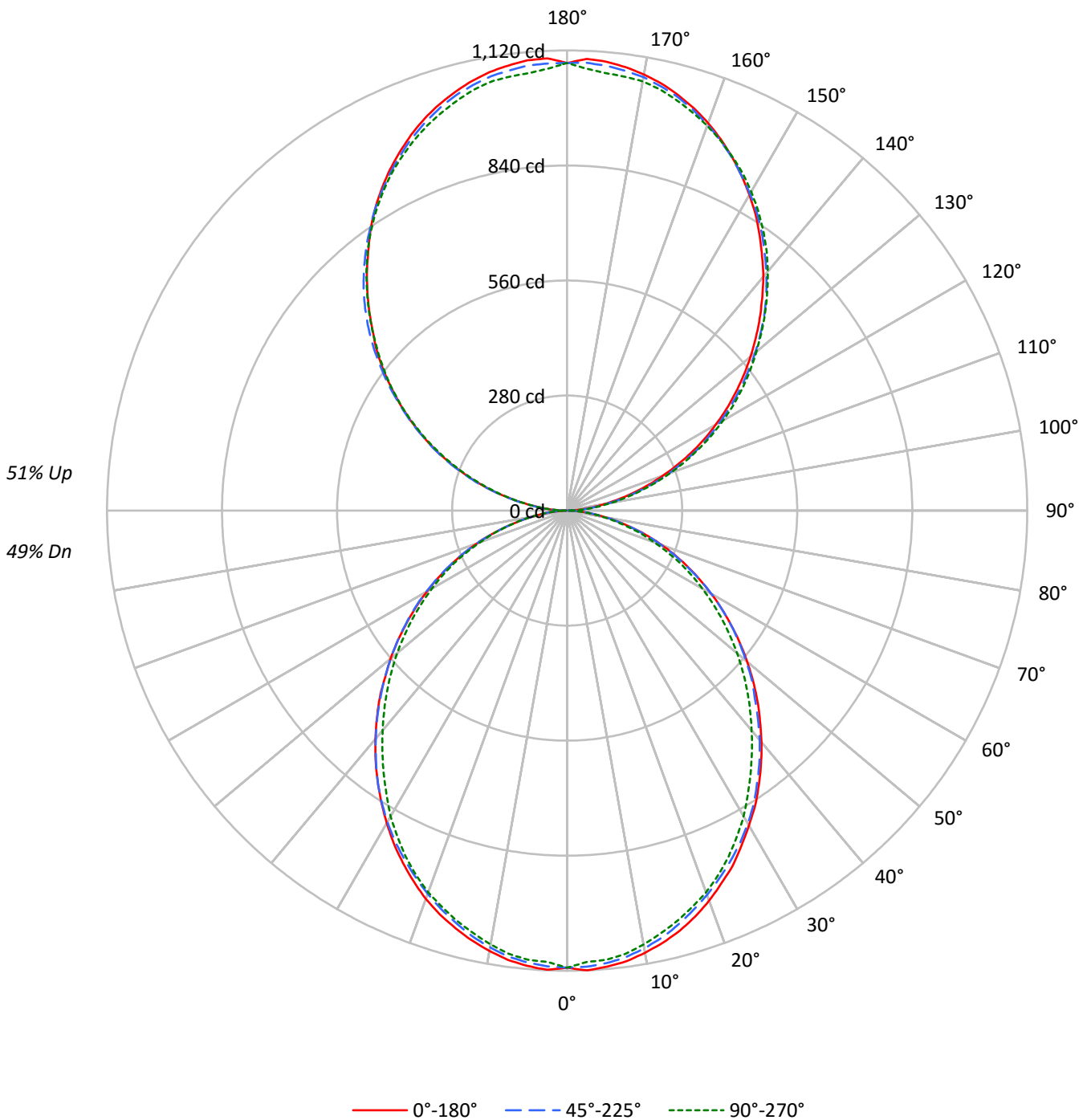
Lumens per Lamp: N/A  
Luminaire Lumens: 5713.0 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.29  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4.08' x H: 0.38')  
CIE Type: General Diffuse

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	0
RCR																		
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	93	89	86	90	86	83	80	73	70	68	60	58	57	49	48	46	41
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35
3	81	72	64	59	74	66	60	55	56	51	47	47	43	40	38	36	33	29
4	74	63	56	50	68	59	52	47	50	45	40	42	38	35	34	31	29	25
5	68	57	48	43	62	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	30	36	31	27	31	26	23	25	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	31	25	46	35	29	24	31	25	21	26	22	19	22	18	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	7038	7038	7038
5°	7021	6461	7009
10°	6908	5945	6882
15°	6768	5458	6724
20°	6583	5013	6551
25°	6385	4569	6330
30°	6140	4130	6093
35°	5904	3690	5835
40°	5643	3287	5565
45°	5367	2918	5289
50°	5074	2564	4977
55°	4760	2218	4647
60°	4422	1879	4303
65°	4053	1552	3908
70°	3620	1204	3449
75°	3036	855	2825
80°	2300	532	2103
85°	1374	232	1204



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.6	1.8
10°-20°	293.7	5.1
20°-30°	431.4	7.6
30°-40°	498.3	8.7
40°-50°	493.9	8.6
50°-60°	428.4	7.5
60°-70°	312.9	5.5
70°-80°	171.0	3.0
80°-90°	44.4	0.8
90°-100°	54.1	0.9
100°-110°	195.1	3.4
110°-120°	347.1	6.1
120°-130°	462.9	8.1
130°-140°	523.6	9.2
140°-150°	517.3	9.1
150°-160°	438.0	7.7
160°-170°	293.3	5.1
170°-180°	103.0	1.8
0°-30°	829.7	14.5
0°-40°	1328.0	23.2
0°-60°	2250.3	39.4
0°-90°	2778.7	48.6
90°-120°	596.2	10.4
90°-150°	2100.0	36.8
90°-180°	2934.0	51.4
0°-180°	5713.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1112	1112	1112	1112	1112	
5°	1114	1106	1098	1104	1112	106
15°	1059	1044	1034	1040	1052	298
25°	954	941	929	937	946	438
35°	814	807	779	804	804	509
45°	655	646	620	643	645	505
55°	488	488	460	479	477	437
65°	324	321	304	314	312	321
75°	167	165	152	156	155	178
85°	39	41	36	36	34	44
90°	1	3	1	2	1	5
95°	37	44	49	52	48	42
105°	165	178	185	192	189	177
115°	333	346	352	360	357	329
125°	500	513	522	529	523	448
135°	663	680	682	695	680	512
145°	817	826	832	837	835	511
155°	950	948	951	957	963	437
165°	1046	1042	1034	1046	1055	295
175°	1097	1087	1069	1087	1100	104
180°	1089	1089	1089	1089	1089	



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CATALOG NUMBER: S125-DIW-U1-1-30-0048-1D-UDD-1-5-W

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1112.5	1112.5	1112.5	1112.5	1112.5	1112.5	1112.5	1112.5	1112.5
2.5°	1120.0	1108.4	1111.1	1109.1	1099.5	1107.7	1110.4	1106.4	1118.6
5°	1114.5	1102.9	1105.7	1102.9	1097.5	1101.6	1104.3	1100.2	1112.5
7.5°	1106.4	1094.1	1096.1	1093.4	1088.0	1091.4	1094.8	1090.7	1102.9
10°	1092.7	1081.2	1081.8	1078.4	1072.3	1076.4	1079.8	1076.4	1088.6
12.5°	1077.1	1064.8	1064.8	1059.4	1053.9	1057.3	1062.1	1059.4	1071.6
15°	1058.7	1045.8	1043.7	1040.3	1034.2	1038.3	1040.3	1039.6	1051.9
17.5°	1036.2	1022.6	1019.9	1019.2	1011.7	1017.2	1017.8	1015.8	1030.8
20°	1010.4	997.4	995.4	994.7	988.6	992.7	992.7	989.9	1005.6
22.5°	981.8	969.5	968.8	967.5	960.7	965.4	965.4	961.3	977.0
25°	953.8	938.9	940.9	937.5	929.3	936.1	936.8	930.0	945.7
27.5°	919.1	907.5	911.6	905.5	894.6	903.5	907.5	897.3	913.7
30°	885.1	872.8	879.6	868.7	859.2	867.4	874.9	861.9	878.3
32.5°	851.7	837.4	845.6	832.0	818.4	828.6	840.8	828.6	841.5
35°	813.6	802.0	806.8	792.5	778.9	789.1	804.1	792.5	804.1
37.5°	775.5	765.9	769.3	752.3	738.7	748.9	764.6	755.7	765.9
40°	736.0	729.2	729.2	712.1	698.5	708.1	724.4	719.6	725.8
42.5°	695.1	692.4	687.0	672.0	659.0	668.6	684.2	682.9	685.6
45°	655.0	655.0	646.1	630.4	619.6	628.4	642.7	646.1	645.4
47.5°	613.4	616.8	609.3	592.3	580.1	588.9	601.9	608.0	601.2
50°	571.9	578.0	568.5	553.5	539.9	549.4	560.3	568.5	561.0
52.5°	530.4	537.9	527.6	513.3	499.7	508.6	519.5	529.0	519.5
55°	488.2	497.0	487.5	472.5	459.6	467.7	478.6	488.2	476.6
57.5°	446.6	454.8	446.6	431.6	419.4	426.9	438.5	445.9	435.7
60°	405.1	413.9	405.8	391.5	379.9	386.0	396.9	404.4	394.2
62.5°	364.2	371.7	362.9	351.3	342.5	345.2	355.4	364.2	353.4
65°	324.1	330.9	321.4	311.1	303.7	305.0	313.9	318.6	312.5
67.5°	284.6	292.1	281.9	272.3	263.5	266.2	273.7	280.5	273.0
70°	245.1	252.6	241.7	233.5	226.0	227.4	233.5	241.0	233.5
72.5°	206.3	212.4	204.9	195.4	190.0	191.3	194.7	201.5	194.0
75°	166.8	173.6	165.4	158.0	152.5	153.9	155.9	161.4	155.2
77.5°	130.0	134.8	129.4	123.2	119.8	120.5	121.2	125.3	119.8
80°	96.0	100.1	96.7	91.9	89.2	89.2	89.2	92.6	87.8
82.5°	65.4	69.4	66.7	63.3	61.3	59.2	60.6	63.3	59.2
85°	38.8	42.2	40.8	37.4	36.1	34.7	36.1	37.4	34.0
87.5°	17.7	20.4	18.4	15.0	13.6	12.3	12.3	14.3	11.6
90°	1.4	3.4	2.7	2.0	1.4	1.4	2.0	2.7	1.4
92.5°	12.9	17.7	17.7	15.7	19.1	21.8	26.6	26.6	23.1
95°	37.4	42.2	44.3	45.6	49.0	50.4	51.7	51.7	47.7
97.5°	64.0	70.8	72.2	74.2	78.3	79.0	81.0	81.7	76.9
100°	94.0	102.1	103.5	106.2	111.0	111.7	114.4	115.7	111.0
102.5°	128.0	137.5	139.6	141.6	145.0	147.7	151.1	153.2	147.7
105°	165.4	177.0	178.4	181.1	185.2	187.9	192.0	193.4	188.6
107.5°	207.0	215.8	219.9	221.3	225.4	228.1	233.5	234.2	230.1
110°	247.8	256.0	261.4	262.8	266.9	269.6	275.1	275.1	271.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	290.0	298.9	303.7	305.0	309.8	311.8	317.3	317.9	314.5
115°	332.9	341.1	346.5	347.9	352.0	354.7	359.5	360.8	357.4
117.5°	375.8	384.0	388.1	390.8	395.6	397.6	400.3	402.4	399.0
120°	417.3	425.5	428.9	433.0	437.8	439.8	443.9	442.5	440.5
122.5°	459.6	467.1	470.5	475.2	480.7	481.3	484.1	483.4	482.0
125°	500.4	506.5	512.7	515.4	521.5	521.5	529.0	522.9	522.9
127.5°	541.9	546.7	554.9	556.2	561.7	562.4	571.2	562.4	564.4
130°	582.8	586.2	597.1	597.1	601.2	602.5	614.1	601.9	604.6
132.5°	623.0	625.7	638.6	637.3	641.3	642.7	655.6	641.3	640.7
135°	663.1	664.5	679.5	677.4	681.5	683.6	695.1	679.5	680.2
137.5°	702.6	701.9	717.6	716.9	721.0	722.4	733.3	714.9	719.6
140°	742.8	738.0	754.4	755.7	759.8	761.2	768.7	754.4	758.4
142.5°	779.6	777.5	789.8	791.8	797.3	797.3	804.1	789.8	795.2
145°	817.0	812.2	825.8	825.8	832.0	831.3	836.7	827.2	834.7
147.5°	853.8	847.6	859.2	859.9	865.3	865.3	870.1	860.6	870.1
150°	887.1	881.7	889.8	890.5	896.0	895.3	900.1	895.3	903.5
152.5°	919.1	913.7	919.1	918.4	925.2	923.2	929.3	925.2	934.8
155°	949.8	943.6	948.4	945.7	951.1	950.4	957.2	955.9	963.4
157.5°	977.7	970.9	975.0	971.5	975.0	975.6	983.1	982.4	990.6
160°	1003.5	996.7	999.5	993.3	996.7	997.4	1006.9	1006.9	1015.1
162.5°	1026.7	1019.2	1021.9	1012.4	1015.8	1015.8	1028.1	1028.1	1036.2
165°	1046.4	1039.6	1041.7	1030.1	1033.5	1034.2	1046.4	1047.1	1054.6
167.5°	1064.1	1056.7	1057.3	1046.4	1049.2	1049.8	1060.7	1062.1	1070.9
170°	1077.8	1070.9	1070.9	1058.7	1060.7	1061.4	1073.0	1075.0	1083.9
172.5°	1088.6	1081.2	1079.8	1066.9	1065.5	1068.9	1080.5	1084.6	1092.7
175°	1096.8	1088.6	1086.6	1073.7	1068.9	1075.7	1087.3	1090.7	1100.2
177.5°	1100.2	1092.1	1090.7	1077.1	1076.4	1078.4	1089.3	1093.4	1101.6
180°	1089.3	1089.3	1089.3	1089.3	1089.3	1089.3	1089.3	1089.3	1089.3

(END OF REPORT)