

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: P199520

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199520
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-U1-1-30-0048-1D-UDD-1-NA-W
Description: DEFINE 5-INCH DIRECT/INDIRECT WALL LED LUMINAIRE
UPLIGHT LL1-3000K, NO LENS
DOWNLIGHT LL1-3000K, SATIN WHITE DIFFUSER
Light Source: -
757G
Ballast/Driver: ELECTRONIC DRIVERS

Summary

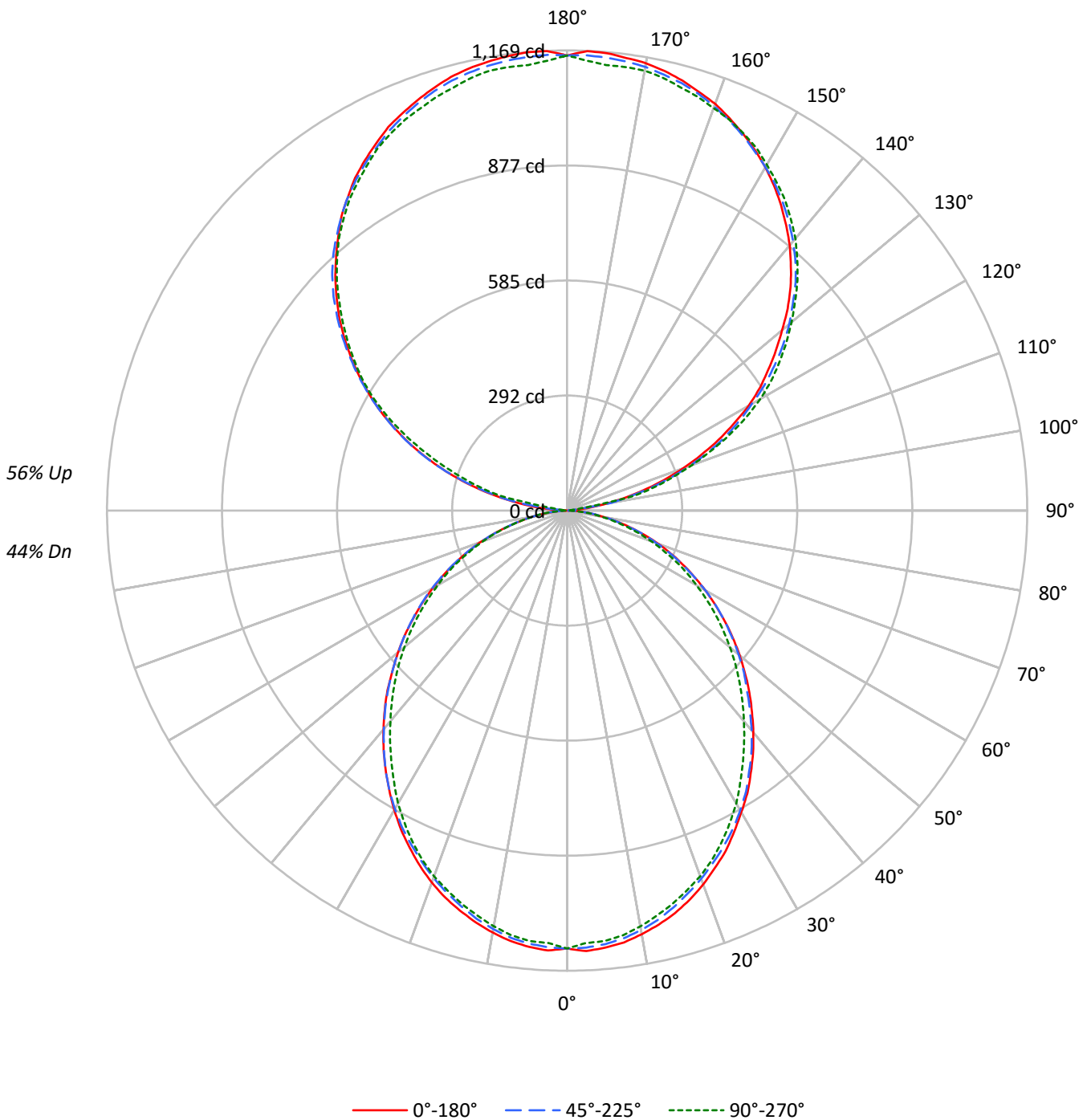
Lumens per Lamp: N/A
Luminaire Lumens: 6244.3 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4.08' x H: 0.38')
CIE Type: General Diffuse

Input Watts (W): 52
Input Voltage (V): NR
Input Current (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

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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	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°	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	1.7
10°-20°	293.7	4.7
20°-30°	431.4	6.9
30°-40°	498.3	8.0
40°-50°	493.9	7.9
50°-60°	428.4	6.9
60°-70°	312.9	5.0
70°-80°	171.0	2.7
80°-90°	44.4	0.7
90°-100°	36.7	0.6
100°-110°	245.5	3.9
110°-120°	450.4	7.2
120°-130°	584.0	9.4
130°-140°	634.5	10.2
140°-150°	599.7	9.6
150°-160°	487.8	7.8
160°-170°	317.2	5.1
170°-180°	109.7	1.8
0°-30°	829.7	13.3
0°-40°	1328.0	21.3
0°-60°	2250.3	36.0
0°-90°	2778.7	44.5
90°-120°	732.7	11.7
90°-150°	2550.8	40.9
90°-180°	3466.0	55.5
0°-180°	6244.3	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	3
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: P199520

CATALOG NUMBER: S125-DIW-U1-1-30-0048-1D-UDD-1-NA-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°	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



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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)