

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: P199523

Luminaire Tested: **S125-DIW-U1-1-40-0048-1D-UDD-1-5-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199523
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-U1-1-40-0048-1D-UDD-1-5-W
Description: DEFINE 5-INCH DIRECT/INDIRECT WALL LED LUMINAIRE
UPLIGHT LL1-4000K, SATIN WHITE DIFFUSER
DOWNLIGHT LL1-4000K, SATIN WHITE DIFFUSER
Light Source: -
757G
Ballast/Driver: ELECTRONIC DRIVERS

Summary

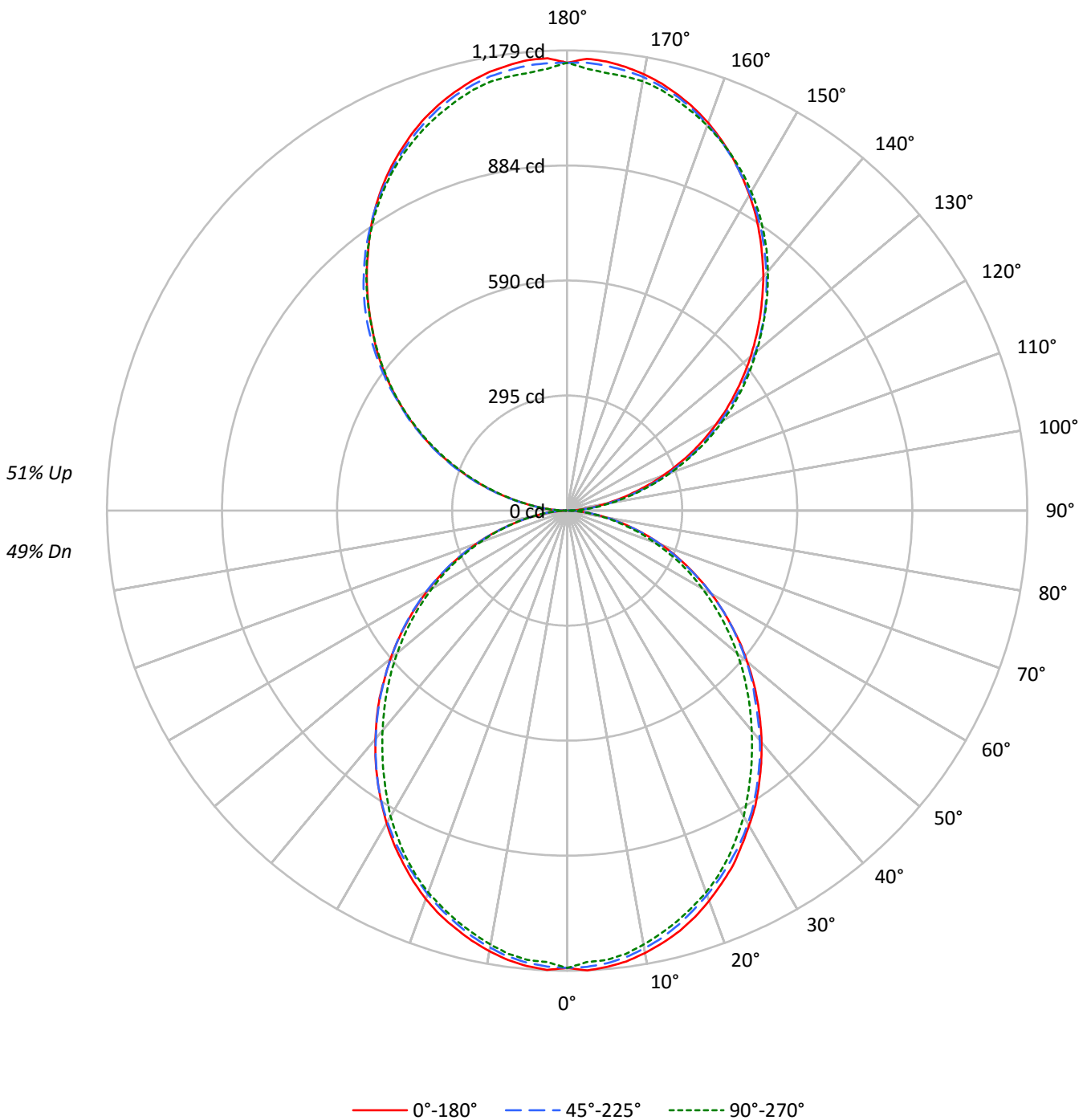
Lumens per Lamp: N/A
Luminaire Lumens: 6016.4 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4.08' x H: 0.38')
CIE Type: General Diffuse

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	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°	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	1.8
10°-20°	309.3	5.1
20°-30°	454.4	7.6
30°-40°	524.8	8.7
40°-50°	520.2	8.6
50°-60°	451.2	7.5
60°-70°	329.5	5.5
70°-80°	180.1	3.0
80°-90°	46.8	0.8
90°-100°	57.0	0.9
100°-110°	205.4	3.4
110°-120°	365.5	6.1
120°-130°	487.4	8.1
130°-140°	551.4	9.2
140°-150°	544.7	9.1
150°-160°	461.3	7.7
160°-170°	308.9	5.1
170°-180°	108.4	1.8
0°-30°	873.8	14.5
0°-40°	1398.5	23.2
0°-60°	2369.8	39.4
0°-90°	2926.2	48.6
90°-120°	627.9	10.4
90°-150°	2211.5	36.8
90°-180°	3090.0	51.4
0°-180°	6016.4	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	5
95°	39	47	52	54	50	44
105°	174	188	195	202	199	186
115°	351	365	371	379	376	347
125°	527	540	549	557	551	471
135°	698	716	718	732	716	539
145°	860	870	876	881	879	538
155°	1000	999	1002	1008	1014	460
165°	1102	1097	1088	1102	1111	311
175°	1155	1144	1126	1145	1159	110
180°	1147	1147	1147	1147	1147	



TEST NUMBER: P199523

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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°	13.6	18.6	18.6	16.5	20.1	22.9	28.0	28.0	24.4
95°	39.4	44.5	46.6	48.0	51.6	53.1	54.5	54.5	50.2
97.5°	67.4	74.6	76.0	78.2	82.5	83.2	85.3	86.0	81.0
100°	98.9	107.5	109.0	111.8	116.9	117.6	120.5	121.9	116.9
102.5°	134.8	144.8	147.0	149.1	152.7	155.6	159.2	161.3	155.6
105°	174.2	186.4	187.9	190.7	195.0	197.9	202.2	203.6	198.6
107.5°	218.0	227.3	231.6	233.0	237.3	240.2	245.9	246.6	242.3
110°	261.0	269.6	275.3	276.8	281.1	283.9	289.7	289.7	286.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	305.4	314.8	319.8	321.2	326.2	328.4	334.1	334.8	331.2
115°	350.6	359.2	364.9	366.4	370.7	373.5	378.6	380.0	376.4
117.5°	395.8	404.4	408.7	411.5	416.6	418.7	421.6	423.7	420.2
120°	439.5	448.1	451.7	456.0	461.0	463.2	467.5	466.0	463.9
122.5°	484.0	491.9	495.4	500.5	506.2	506.9	509.8	509.1	507.6
125°	527.0	533.4	539.9	542.8	549.2	549.2	557.1	550.6	550.6
127.5°	570.7	575.7	584.3	585.8	591.5	592.2	601.6	592.2	594.4
130°	613.7	617.3	628.8	628.8	633.1	634.5	646.7	633.8	636.7
132.5°	656.0	658.9	672.5	671.1	675.4	676.8	690.5	675.4	674.7
135°	698.3	699.8	715.6	713.4	717.7	719.9	732.0	715.6	716.3
137.5°	739.9	739.2	755.7	755.0	759.3	760.7	772.2	752.8	757.9
140°	782.2	777.2	794.4	795.9	800.2	801.6	809.5	794.4	798.7
142.5°	820.9	818.8	831.7	833.9	839.6	839.6	846.8	831.7	837.4
145°	860.4	855.4	869.7	869.7	876.2	875.4	881.2	871.1	879.0
147.5°	899.1	892.6	904.8	905.6	911.3	911.3	916.3	906.3	916.3
150°	934.2	928.5	937.1	937.8	943.6	942.8	947.9	942.8	951.4
152.5°	967.9	962.2	967.9	967.2	974.4	972.2	978.7	974.4	984.4
155°	1000.2	993.7	998.8	995.9	1001.6	1000.9	1008.1	1006.6	1014.5
157.5°	1029.6	1022.4	1026.7	1023.1	1026.7	1027.4	1035.3	1034.6	1043.2
160°	1056.8	1049.7	1052.5	1046.1	1049.7	1050.4	1060.4	1060.4	1069.0
162.5°	1081.2	1073.3	1076.2	1066.2	1069.7	1069.7	1082.6	1082.6	1091.3
165°	1102.0	1094.8	1097.0	1084.8	1088.4	1089.1	1102.0	1102.7	1110.6
167.5°	1120.6	1112.8	1113.5	1102.0	1104.9	1105.6	1117.1	1118.5	1127.8
170°	1135.0	1127.8	1127.8	1114.9	1117.1	1117.8	1130.0	1132.1	1141.4
172.5°	1146.5	1138.6	1137.1	1123.5	1122.1	1125.7	1137.9	1142.2	1150.8
175°	1155.1	1146.5	1144.3	1130.7	1125.7	1132.8	1145.0	1148.6	1158.6
177.5°	1158.6	1150.0	1148.6	1134.3	1133.6	1135.7	1147.2	1151.5	1160.1
180°	1147.2	1147.2	1147.2	1147.2	1147.2	1147.2	1147.2	1147.2	1147.2

(END OF REPORT)