

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: P334144

Luminaire Tested: **SA4XXDP-C1195D927-4F0-1E-UDD-D**

Issue Date: 10/11/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P334144  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-16)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 10/11/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA4XXDP-C1195D927-4F0-1E-UDD-D  
Description: DEFINE 4 DIRECT LED LUMINAIRE, DROP SATIN WHITE DIFFUSER  
PENDANT/SURFACE/WALL MOUNT, 1195 LUMENS PER FOOT  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

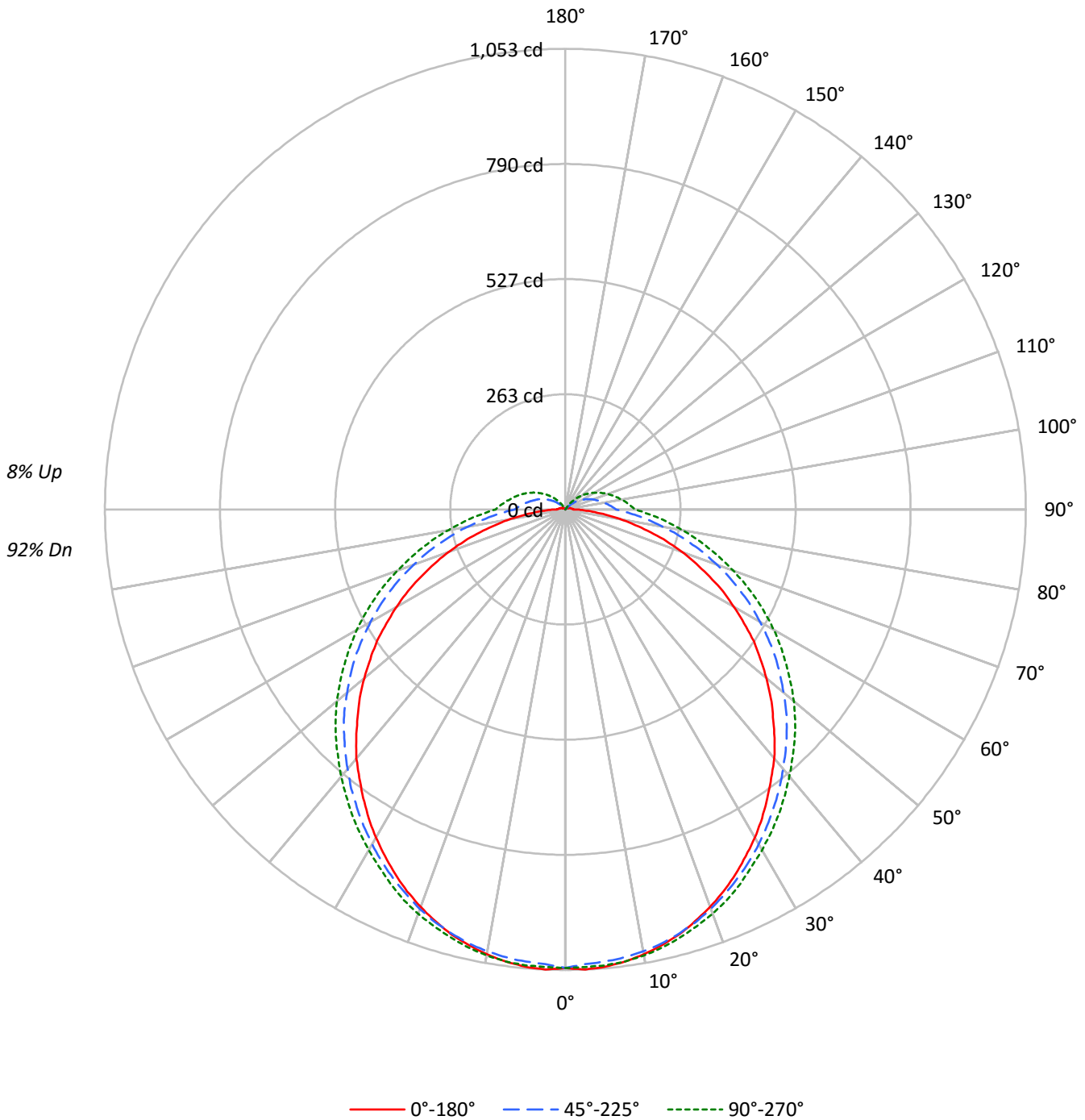
Lumens per Lamp: N/A  
Luminaire Lumens: 3574.6 lumens  
Efficiency: N/A  
Efficacy: 87.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 41.1  
Input Voltage (V): 120  
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									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	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0									
RCR																																													
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	92																											
1	105	100	95	91	102	97	93	89	91	88	84	86	83	80	81	79	77	74																											
2	95	86	79	73	92	84	77	71	79	73	68	74	70	66	70	67	63	60																											
3	87	75	67	60	83	73	65	59	69	62	57	65	60	55	62	57	53	50																											
4	79	66	57	50	76	65	56	49	61	54	48	58	52	47	55	49	45	43																											
5	73	59	50	43	70	58	49	42	55	47	41	52	45	40	49	44	39	37																											
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	45	39	34	32																											
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	28																											
8	58	44	35	29	56	43	35	29	41	33	28	39	32	28	37	31	27	25																											
9	54	40	32	26	52	39	31	26	38	30	25	36	29	25	34	29	24	22																											
10	50	37	29	24	49	36	29	23	35	28	23	33	27	23	32	26	22	20																											

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

	0°	45°	90°
0°	8464	8464	8464
5°	8506	8411	8477
10°	8470	8411	8488
15°	8410	8389	8468
20°	8311	8351	8453
25°	8199	8293	8418
30°	8077	8241	8383
35°	7937	8192	8389
40°	7832	8166	8401
45°	7668	8177	8471
50°	7536	8184	8567
55°	7403	8246	8676
60°	7185	8302	8890
65°	6953	8434	9173
70°	6680	8674	9616
75°	6298	9192	10546
80°	5951	10535	12608
85°	5761	15228	19572



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.3	2.8
10°-20°	284.6	8.0
20°-30°	430.4	12.0
30°-40°	520.7	14.6
40°-50°	550.4	15.4
50°-60°	518.0	14.5
60°-70°	429.9	12.0
70°-80°	301.7	8.4
80°-90°	170.1	4.8
90°-100°	101.2	2.8
100°-110°	75.0	2.1
110°-120°	50.3	1.4
120°-130°	28.3	0.8
130°-140°	12.2	0.3
140°-150°	2.4	0.1
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	814.3	22.8
0°-40°	1335.0	37.3
0°-60°	2403.4	67.2
0°-90°	3305.0	92.5
90°-120°	226.5	6.3
90°-150°	269.5	7.5
90°-180°	270.0	7.6
0°-180°	3574.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1048	1048	1048	1048	1048	
5°	1050	1046	1038	1047	1046	100
15°	1006	1007	1004	1014	1013	284
25°	920	928	931	944	945	424
35°	805	820	831	848	851	504
45°	672	694	716	736	742	519
55°	526	551	586	609	616	469
65°	364	402	442	471	480	361
75°	202	245	295	328	338	215
85°	62	112	164	200	211	65
90°	19	66	116	150	160	13
95°	15	54	102	134	144	12
105°	11	34	78	107	116	12
115°	7	18	55	81	89	7
125°	5	4	33	55	62	5
135°	2	2	11	29	36	2
145°	1	0	0	7	12	1
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P334144

CATALOG NUMBER: SA4XXDP-C1195D927-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1048.4	1048.4	1048.4	1048.4	1048.4
2.5°	1053.1	1049.6	1040.2	1048.4	1047.3
5°	1049.6	1046.1	1037.9	1047.3	1046.1
7.5°	1042.6	1040.2	1033.2	1043.8	1042.6
10°	1033.2	1032.0	1026.1	1036.7	1035.5
12.5°	1020.3	1020.3	1016.7	1026.1	1026.1
15°	1006.2	1007.4	1003.8	1014.4	1013.2
17.5°	987.4	990.9	989.7	1000.3	999.1
20°	967.4	971.0	972.1	983.9	983.9
22.5°	945.1	949.8	952.2	963.9	966.3
25°	920.5	927.5	931.0	944.0	945.1
27.5°	893.5	904.0	908.7	920.5	921.6
30°	866.5	875.9	884.1	897.0	899.3
32.5°	837.1	848.9	858.2	873.5	875.9
35°	805.4	819.5	831.2	847.7	851.2
37.5°	773.7	790.2	804.2	820.7	824.2
40°	743.2	758.5	774.9	792.5	797.2
42.5°	708.0	725.6	745.5	765.5	769.0
45°	671.6	693.9	716.2	736.1	742.0
47.5°	637.5	659.8	685.7	705.6	712.7
50°	600.0	625.8	651.6	675.1	682.1
52.5°	562.4	588.2	618.7	642.2	649.3
55°	526.0	550.6	585.9	609.3	616.4
57.5°	484.9	515.4	549.5	577.6	583.5
60°	445.0	475.5	514.2	541.2	550.6
62.5°	406.2	440.3	479.0	506.0	515.4
65°	364.0	401.5	441.5	470.8	480.2
67.5°	324.0	364.0	406.2	435.6	445.0
70°	283.0	322.9	367.5	399.2	407.4
72.5°	243.0	284.1	332.3	362.8	372.2
75°	201.9	245.4	294.7	327.6	338.1
77.5°	163.2	209.0	260.6	293.5	305.3
80°	128.0	174.9	226.6	261.8	271.2
82.5°	92.8	142.1	193.7	230.1	240.7
85°	62.2	111.5	164.4	199.6	211.3
87.5°	38.7	86.9	138.5	172.6	183.2
90°	18.8	65.7	116.2	150.3	159.7
92.5°	17.6	58.7	109.2	142.1	151.5
95°	15.3	54.0	102.1	133.8	144.4
97.5°	14.1	48.1	96.3	126.8	137.4
100°	12.9	43.4	89.2	120.9	129.1
102.5°	12.9	38.7	83.4	113.9	123.3
105°	10.6	34.0	77.5	106.8	116.2
107.5°	10.6	30.5	71.6	101.0	109.2
110°	9.4	25.8	66.9	93.9	103.3



TEST NUMBER: P334144

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	8.2	22.3	61.1	86.9	96.3
115°	7.0	17.6	55.2	81.0	89.2
117.5°	7.0	14.1	49.3	74.0	83.4
120°	5.9	9.4	43.4	66.9	76.3
122.5°	5.9	5.9	37.6	61.1	69.3
125°	4.7	3.5	32.9	55.2	62.2
127.5°	4.7	3.5	27.0	48.1	56.4
130°	3.5	2.3	21.1	42.3	49.3
132.5°	3.5	2.3	16.4	36.4	43.4
135°	2.3	2.3	10.6	29.4	36.4
137.5°	2.3	1.2	5.9	23.5	29.4
140°	2.3	1.2	2.3	17.6	23.5
142.5°	1.2	1.2	0.0	12.9	17.6
145°	1.2	0.0	0.0	7.0	11.7
147.5°	1.2	0.0	0.0	1.2	5.9
150°	1.2	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)