

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: P333904

Luminaire Tested: **SA2XXRDP-C1005D930-4F0-1E-UDD-F**

Issue Date: 10/11/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P333904  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-24)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 10/11/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXRDP-C1005D930-4F0-1E-UDD-F  
Description: DEFINE 2 REGRESSED DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
PENDANT/SURFACE/WALL MOUNT, 1005 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

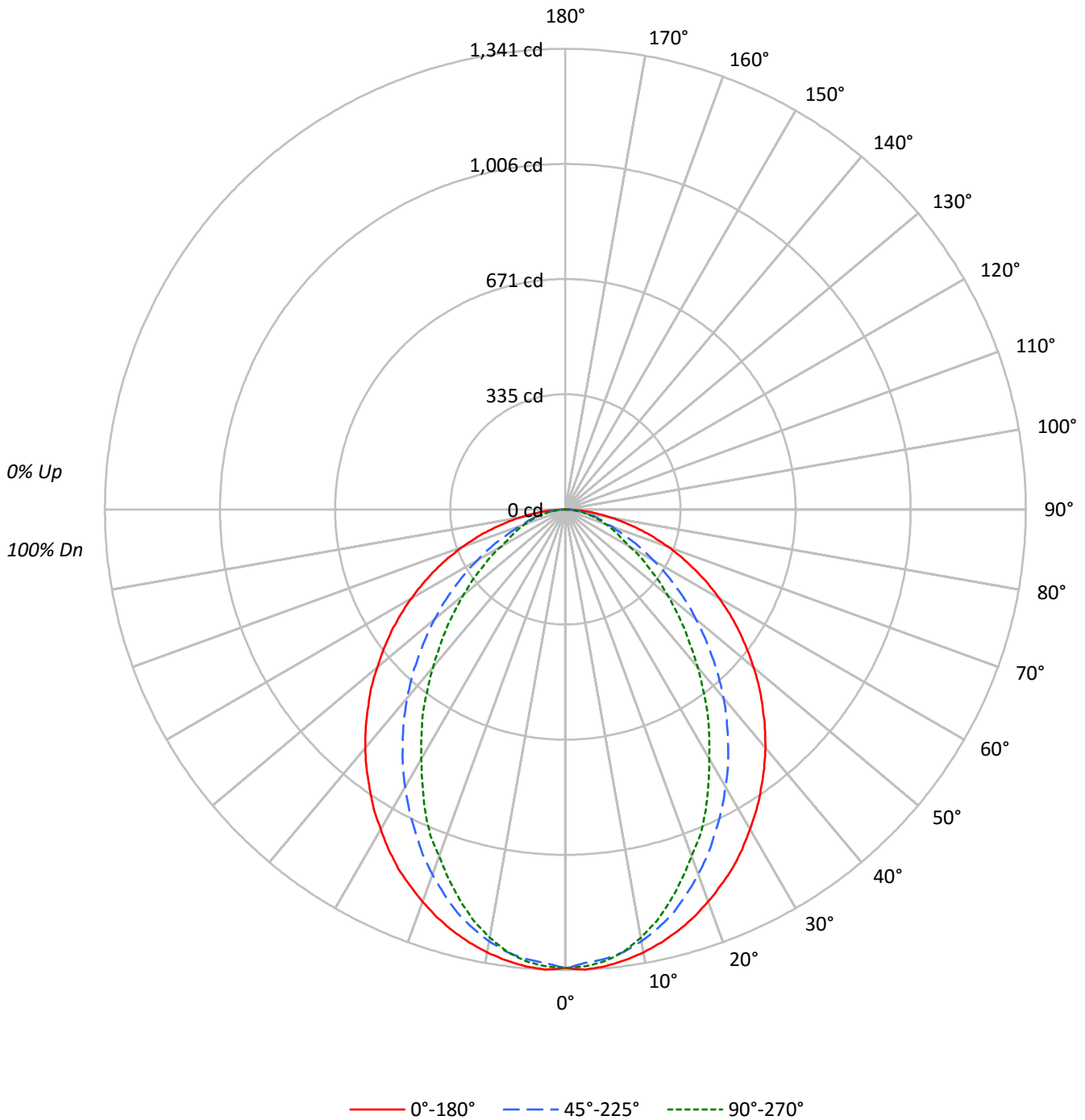
Lumens per Lamp: N/A  
Luminaire Lumens: 2746.1 lumens  
Efficiency: N/A  
Efficacy: 66.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Direct

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				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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39
8	64	51	43	38	62	51	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	44	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29

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

	0°	45°	90°
0°	21558	21558	21558
5°	21640	21289	21405
10°	21474	20940	20761
15°	21229	20319	19733
20°	20886	19433	18457
25°	20537	18426	17222
30°	20049	17391	15635
35°	19578	16267	14243
40°	19102	15102	12631
45°	18541	13796	11175
50°	17967	12474	9743
55°	17382	11054	8369
60°	16701	9558	6946
65°	15927	8034	6323
70°	15002	6618	5821
75°	13868	6032	5427
80°	12245	5393	4947
85°	9633	4261	4261



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.1	4.6
10°-20°	343.5	12.5
20°-30°	482.3	17.6
30°-40°	525.7	19.1
40°-50°	483.2	17.6
50°-60°	379.5	13.8
60°-70°	247.0	9.0
70°-80°	127.2	4.6
80°-90°	32.5	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	951.0	34.6
0°-40°	1476.7	53.8
0°-60°	2339.4	85.2
0°-90°	2746.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2746.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1335	1335	1335	1335	1335	
5°	1335	1329	1314	1324	1321	127
15°	1270	1257	1216	1193	1180	358
25°	1153	1114	1034	985	967	530
35°	993	932	825	749	723	622
45°	812	731	604	518	489	627
55°	618	523	393	320	297	552
65°	417	319	210	169	166	413
75°	222	138	97	88	87	235
85°	52	27	23	23	23	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1335.2	1335.2	1335.2	1335.2	1335.2
2.5°	1341.3	1335.2	1321.9	1334.0	1331.6
5°	1335.2	1329.2	1313.5	1324.3	1320.7
7.5°	1324.3	1317.1	1300.2	1305.0	1299.0
10°	1309.8	1301.4	1277.2	1273.6	1266.3
12.5°	1291.7	1280.8	1248.2	1241.0	1227.7
15°	1270.0	1256.7	1215.6	1192.6	1180.5
17.5°	1244.6	1225.3	1174.5	1147.9	1128.6
20°	1215.6	1191.4	1131.0	1100.8	1074.2
22.5°	1184.2	1156.4	1086.3	1045.2	1027.1
25°	1152.8	1114.1	1034.3	984.8	966.7
27.5°	1115.3	1074.2	986.0	929.2	901.4
30°	1075.4	1029.5	932.8	871.2	838.6
32.5°	1036.8	981.2	882.1	809.6	779.4
35°	993.3	931.6	825.3	749.2	722.6
37.5°	951.0	884.5	772.1	688.8	658.5
40°	906.3	833.8	716.5	630.8	599.3
42.5°	860.3	783.0	661.0	571.5	541.3
45°	812.0	731.0	604.2	518.4	489.4
47.5°	766.1	680.3	549.8	464.0	437.4
50°	715.3	629.5	496.6	413.3	387.9
52.5°	665.8	575.2	445.9	366.1	343.2
55°	617.5	523.2	392.7	320.2	297.3
57.5°	567.9	471.3	345.6	277.9	258.6
60°	517.2	420.5	296.0	234.4	215.1
62.5°	467.6	371.0	253.8	195.8	186.1
65°	416.9	319.0	210.3	169.2	165.5
67.5°	368.5	270.7	169.2	148.6	145.0
70°	317.8	223.5	140.2	128.1	123.3
72.5°	269.5	180.0	117.2	107.5	105.1
75°	222.3	137.8	96.7	88.2	87.0
77.5°	175.2	97.9	76.1	71.3	68.9
80°	131.7	70.1	58.0	53.2	53.2
82.5°	91.8	47.1	39.9	37.5	37.5
85°	52.0	26.6	23.0	23.0	23.0
87.5°	19.3	9.7	9.7	8.5	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)