

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: P333839

Luminaire Tested: **SA2XXDP-C1005D935-4F0-1E-UDD-F**

Issue Date: 10/11/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P333839  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-10)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 10/11/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXDP-C1005D935-4F0-1E-UDD-F  
Description: DEFINE 2 DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
PENDANT/SURFACE/WALL MOUNT, 1005 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

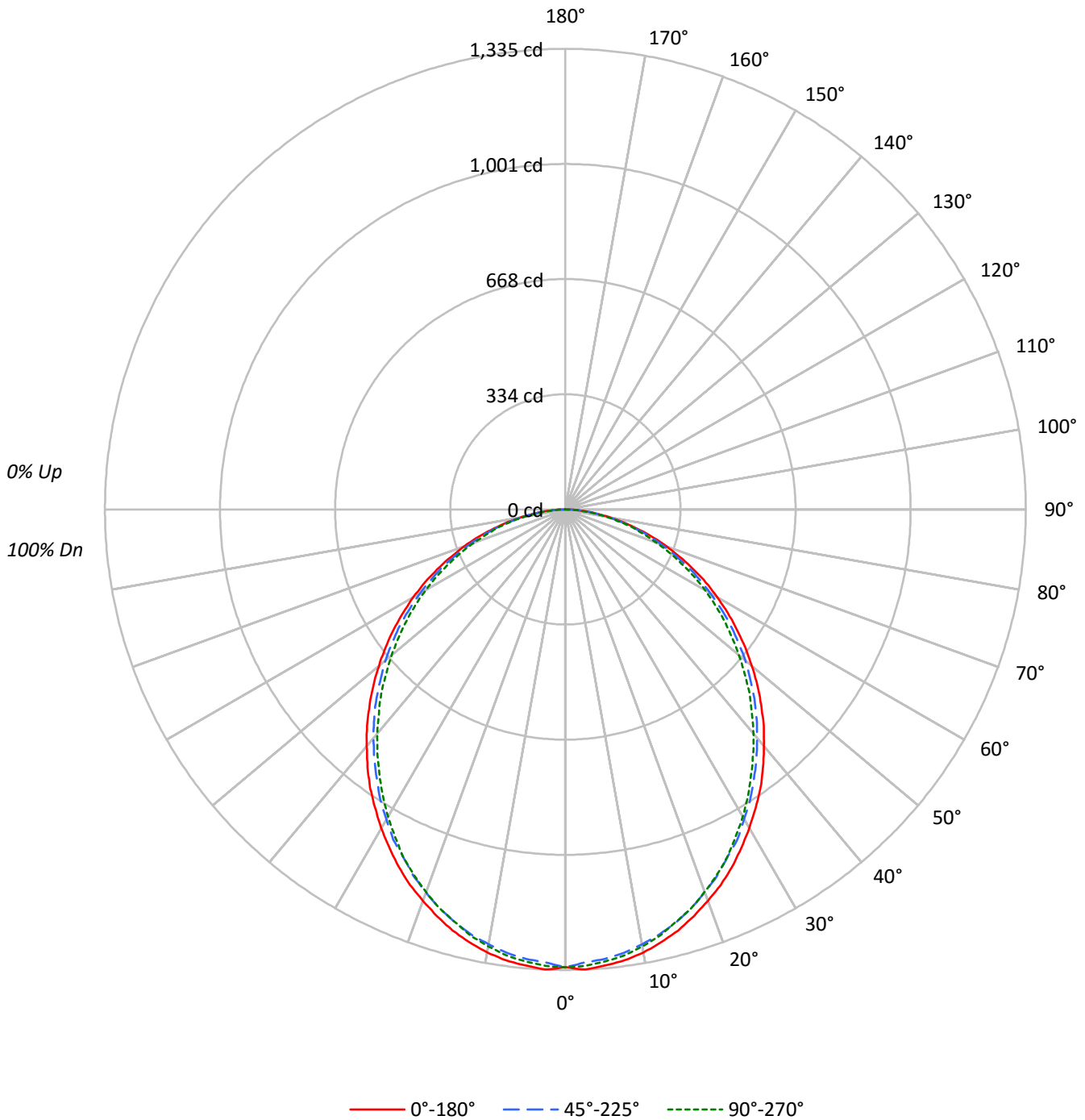
Lumens per Lamp: N/A  
Luminaire Lumens: 3376.4 lumens  
Efficiency: N/A  
Efficacy: 82.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Direct

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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	49	75	63	55	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	26

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

	0°	45°	90°
0°	21427	21427	21427
5°	21509	21199	21323
10°	21381	20984	21089
15°	21117	20712	20690
20°	20742	20302	20282
25°	20370	19801	19801
30°	19889	19341	19175
35°	19442	18788	18512
40°	18881	18236	17886
45°	18326	17687	17249
50°	17726	17116	16508
55°	17098	16451	15840
60°	16401	15658	15080
65°	15648	14869	14185
70°	14700	13917	13251
75°	13375	12813	12495
80°	11864	11511	10916
85°	9689	9226	8281



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.9	3.7
10°-20°	351.4	10.4
20°-30°	516.5	15.3
30°-40°	599.8	17.8
40°-50°	599.1	17.7
50°-60°	522.4	15.5
60°-70°	386.2	11.4
70°-80°	218.5	6.5
80°-90°	57.7	1.7
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°	992.8	29.4
0°-40°	1592.6	47.2
0°-60°	2714.1	80.4
0°-90°	3376.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3376.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1327	1327	1327	1327	1327	
5°	1327	1322	1308	1318	1316	126
15°	1263	1256	1239	1244	1238	356
25°	1143	1133	1112	1114	1112	526
35°	986	974	953	946	939	616
45°	803	794	775	760	755	619
55°	607	600	584	569	563	543
65°	410	402	389	378	371	405
75°	214	212	205	198	200	229
85°	52	51	50	46	45	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1327.1	1327.1	1327.1	1327.1	1327.1
2.5°	1334.8	1328.4	1314.4	1327.1	1324.6
5°	1327.1	1322.0	1308.0	1318.2	1315.6
7.5°	1318.2	1310.5	1296.5	1306.7	1304.1
10°	1304.1	1295.2	1279.9	1290.1	1286.3
12.5°	1285.0	1277.3	1262.0	1268.4	1265.9
15°	1263.3	1255.7	1239.1	1244.2	1237.8
17.5°	1236.5	1228.9	1212.3	1218.6	1212.3
20°	1207.2	1199.5	1181.6	1185.5	1180.4
22.5°	1177.8	1166.3	1149.7	1149.7	1147.2
25°	1143.4	1133.2	1111.5	1114.0	1111.5
27.5°	1105.1	1096.1	1079.6	1075.7	1069.3
30°	1066.8	1056.6	1037.4	1033.6	1028.5
32.5°	1026.0	1018.3	997.9	990.2	985.1
35°	986.4	973.6	953.2	945.6	939.2
37.5°	941.7	930.3	909.8	900.9	894.5
40°	895.8	885.6	865.2	853.7	848.6
42.5°	851.1	840.9	820.5	807.8	800.1
45°	802.6	793.7	774.6	760.5	755.4
47.5°	755.4	746.5	726.1	712.0	704.4
50°	705.7	699.3	681.4	663.6	657.2
52.5°	657.2	648.2	631.7	617.6	608.7
55°	607.4	599.8	584.4	569.1	562.7
57.5°	557.6	551.3	534.7	519.4	514.3
60°	507.9	502.8	484.9	470.9	467.0
62.5°	459.4	450.5	437.7	424.9	419.8
65°	409.6	402.0	389.2	377.7	371.3
67.5°	358.6	352.2	340.7	331.8	326.7
70°	311.4	306.3	294.8	285.8	280.7
72.5°	262.9	257.8	251.4	242.5	238.6
75°	214.4	211.8	205.4	197.8	200.3
77.5°	171.0	165.9	163.3	159.5	155.7
80°	127.6	126.3	123.8	120.0	117.4
82.5°	86.8	86.8	85.5	80.4	80.4
85°	52.3	51.0	49.8	45.9	44.7
87.5°	23.0	20.4	17.9	14.0	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)