

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: P334073

Luminaire Tested: **S123RDP-S1000D927-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334073  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123RDP-S1000D927-4F0-1E-UDD-F  
Description: DEFINE 3 REGRESSED DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
PENDANT/SURFACE/WALL MOUNT, 1000 LUMENS PER FOOT  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2814.0 lumens  
Efficiency: N/A  
Efficacy: 80.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: Direct

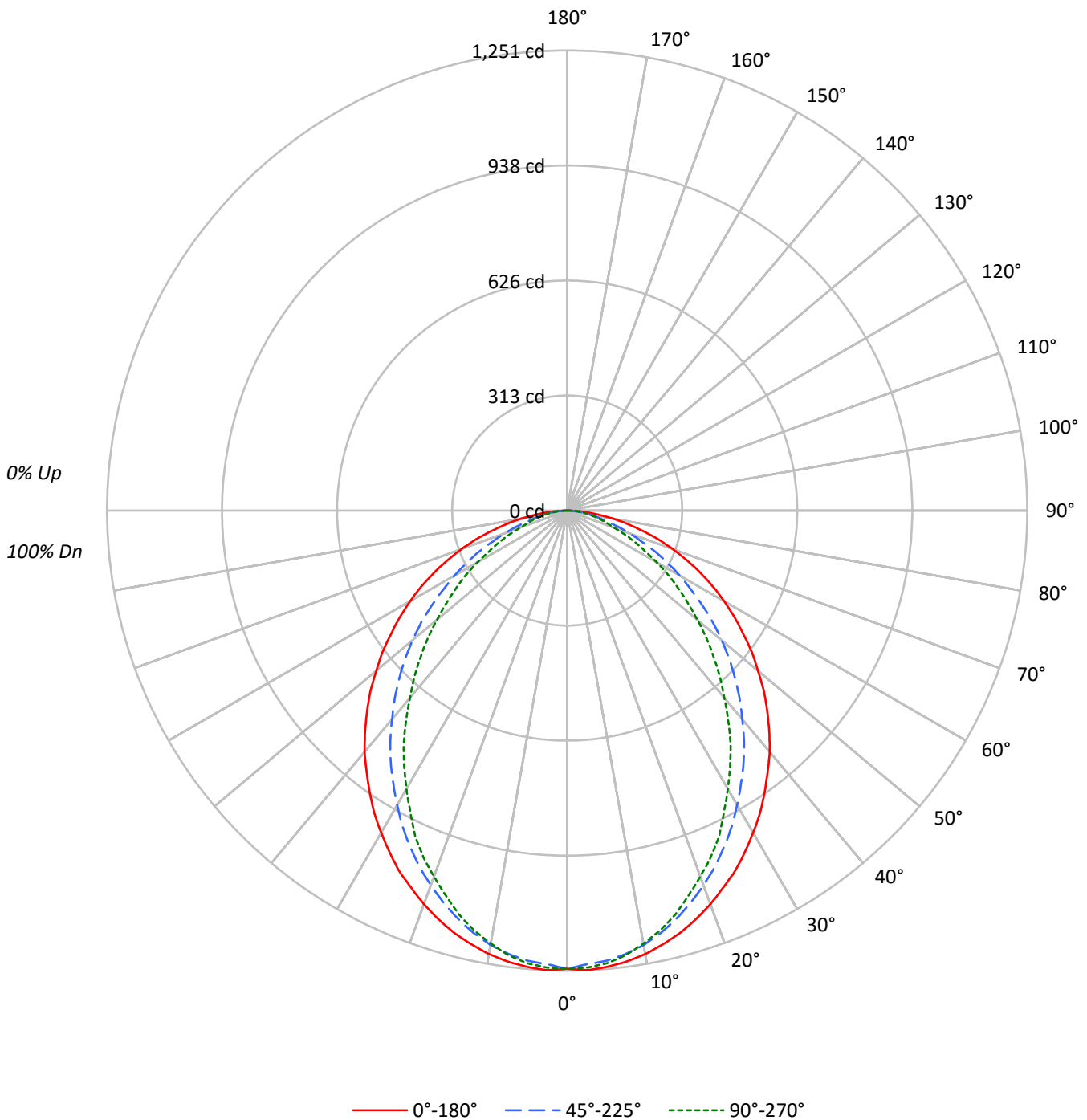
Input Watts (W): 34.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86					86			
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73					73			
3	92	82	75	68	90	81	74	68	78	72	67	75	70	66	73	68	64	62					62			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34					34			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	34	29	28					28			

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

	0°	45°	90°
0°	13408	13408	13408
5°	13459	13273	13350
10°	13383	13106	13062
15°	13239	12800	12665
20°	13041	12417	12127
25°	12837	11986	11602
30°	12568	11489	10861
35°	12293	10992	10181
40°	12038	10405	9340
45°	11703	9826	8581
50°	11335	9168	7731
55°	10958	8417	6938
60°	10613	7612	6069
65°	10162	6742	5198
70°	9602	5659	4198
75°	8779	4454	3951
80°	7829	3942	3632
85°	6607	3495	3248



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.1	4.2
10°-20°	325.7	11.6
20°-30°	469.0	16.7
30°-40°	528.2	18.8
40°-50°	505.2	18.0
50°-60°	413.6	14.7
60°-70°	278.8	9.9
70°-80°	139.8	5.0
80°-90°	36.6	1.3
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°	911.8	32.4
0°-40°	1440.0	51.2
0°-60°	2358.8	83.8
0°-90°	2814.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2814.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1246	1246	1246	1246	1246	
5°	1246	1241	1228	1238	1236	118
15°	1188	1177	1149	1144	1136	335
25°	1081	1056	1009	988	977	497
35°	936	899	836	793	775	586
45°	769	723	646	588	564	593
55°	584	534	448	390	370	524
65°	399	344	265	215	204	395
75°	211	163	107	97	95	225
85°	54	31	28	26	26	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1245.6	1245.6	1245.6	1245.6	1245.6
2.5°	1250.7	1246.6	1234.5	1245.6	1243.6
5°	1245.6	1240.6	1228.4	1237.5	1235.5
7.5°	1236.5	1231.5	1216.3	1222.4	1219.3
10°	1224.4	1217.3	1199.1	1200.2	1195.1
12.5°	1207.2	1199.1	1175.9	1174.9	1168.8
15°	1188.0	1176.9	1148.6	1143.6	1136.5
17.5°	1164.8	1152.7	1117.3	1107.2	1097.1
20°	1138.5	1122.4	1084.0	1070.8	1058.7
22.5°	1109.2	1090.0	1048.6	1031.4	1020.3
25°	1080.9	1055.7	1009.2	988.0	976.9
27.5°	1046.6	1019.3	968.8	940.5	923.3
30°	1011.2	980.9	924.4	890.0	873.8
32.5°	975.9	940.5	879.9	841.5	824.3
35°	935.5	899.1	836.5	793.0	774.8
37.5°	895.1	855.7	790.0	741.5	719.3
40°	856.7	812.2	740.5	688.0	664.7
42.5°	813.2	768.8	694.0	635.4	615.2
45°	768.8	723.3	645.5	588.0	563.7
47.5°	725.3	674.8	598.1	535.4	514.2
50°	676.9	629.4	547.5	484.9	461.7
52.5°	633.4	580.9	500.1	434.4	414.2
55°	583.9	534.4	448.5	389.9	369.7
57.5°	539.5	485.9	399.0	343.5	326.3
60°	493.0	437.4	353.6	299.0	281.9
62.5°	446.5	391.0	307.1	256.6	238.4
65°	399.0	343.5	264.7	215.2	204.1
67.5°	351.6	295.0	218.2	180.8	168.7
70°	305.1	250.5	179.8	144.5	133.4
72.5°	258.6	205.1	142.4	115.2	112.1
75°	211.1	162.6	107.1	97.0	95.0
77.5°	167.7	123.2	83.8	77.8	75.8
80°	126.3	84.9	63.6	60.6	58.6
82.5°	86.9	52.5	45.5	42.4	42.4
85°	53.5	31.3	28.3	26.3	26.3
87.5°	24.2	13.1	13.1	12.1	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)