

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: P334947

Luminaire Tested: **S124IW-S1050U927-4F0-1E-UDD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334947  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124IW-S1050U927-4F0-1E-UDD  
Description: DEFINE 4 INDIRECT LED LUMINAIRE, NO LENS  
WALL MOUNT, 1050 LUMENS PER FOOT  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3322.8 lumens  
Efficiency: N/A  
Efficacy: 169.5 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Indirect

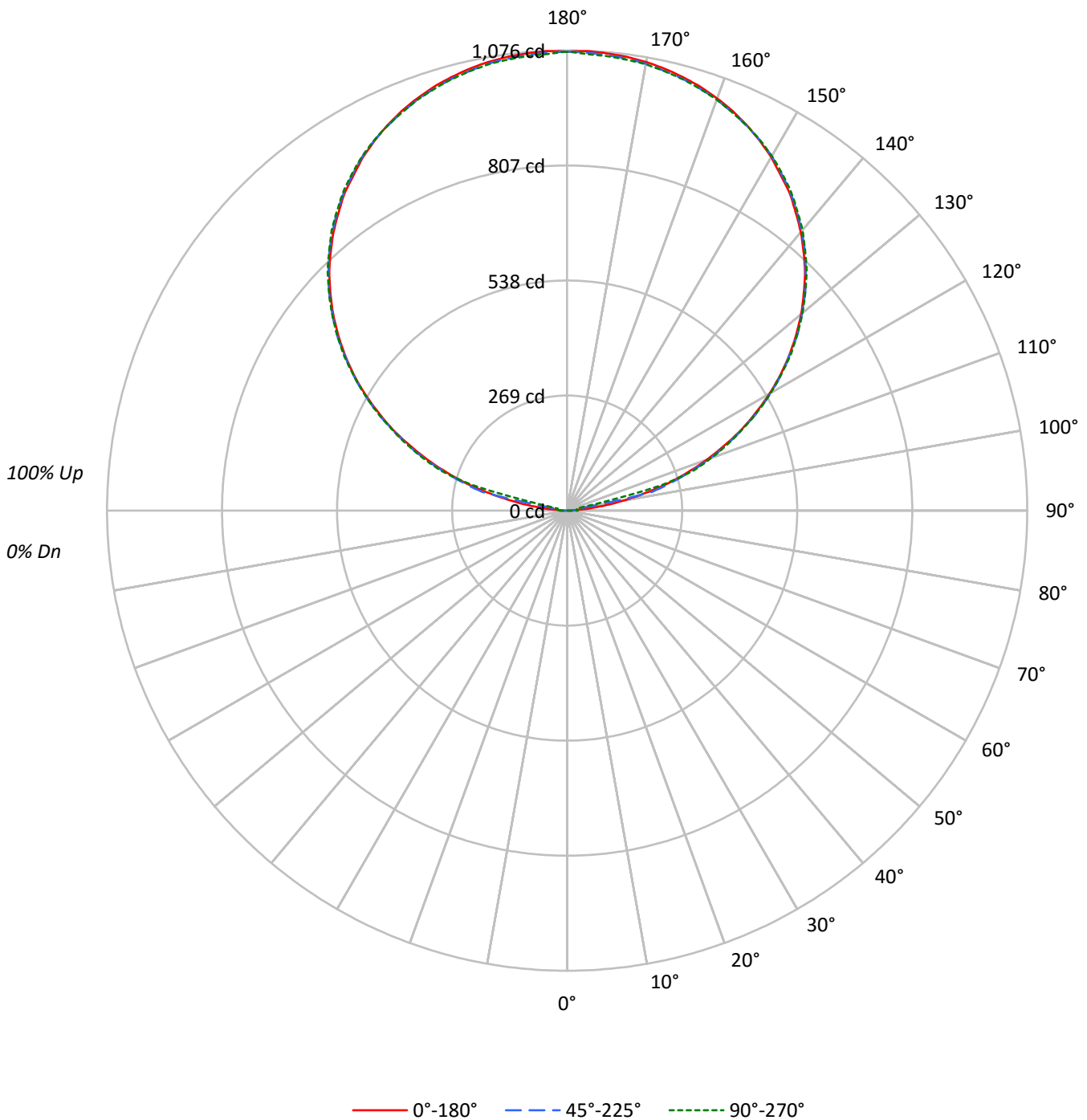
Input Watts (W): 19.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

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

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	2.2	0.1
90°-100°	35.6	1.1
100°-110°	234.6	7.1
110°-120°	447.9	13.5
120°-130°	568.7	17.1
130°-140°	608.4	18.3
140°-150°	568.9	17.1
150°-160°	458.7	13.8
160°-170°	295.8	8.9
170°-180°	102.0	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.2	0.1
90°-120°	718.2	21.6
90°-150°	2464.0	74.2
90°-180°	3321.0	99.9
0°-180°	3322.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	2	11	18	22	24	2
95°	44	17	18	22	23	54
105°	242	246	250	258	229	253
115°	451	454	453	454	454	444
125°	634	637	636	638	639	566
135°	787	786	789	791	792	606
145°	907	909	909	910	912	567
155°	994	995	993	996	994	459
165°	1049	1045	1045	1051	1044	296
175°	1073	1068	1069	1076	1067	102
180°	1073	1073	1073	1073	1073	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	2.4	11.2	17.7	22.5	24.1
92.5°	12.0	10.4	16.9	21.7	21.7
95°	44.1	16.9	17.7	22.5	23.3
97.5°	84.3	101.9	17.7	21.7	22.5
100°	131.6	146.1	35.3	21.7	22.5
102.5°	184.6	194.2	203.9	23.3	23.3
105°	241.6	246.4	250.4	257.6	228.7
107.5°	293.8	296.2	301.8	305.8	309.0
110°	346.7	349.1	354.0	355.6	358.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	398.1	402.9	404.5	403.7	406.9
115°	451.1	453.5	452.7	454.3	454.3
117.5°	498.4	501.6	504.0	503.2	503.2
120°	546.6	549.8	549.0	550.6	549.0
122.5°	591.5	593.1	594.7	595.5	593.9
125°	634.1	637.3	635.7	638.1	638.9
127.5°	675.0	675.8	679.8	679.0	678.2
130°	714.3	715.1	717.5	718.3	718.3
132.5°	750.5	752.1	755.3	756.1	755.3
135°	786.6	785.8	789.0	790.6	792.2
137.5°	818.7	818.7	822.7	824.3	823.5
140°	850.0	851.6	853.2	855.6	856.4
142.5°	878.1	881.3	882.1	883.7	883.7
145°	907.0	909.4	909.4	910.2	911.8
147.5°	929.4	934.3	933.4	934.3	935.1
150°	954.3	957.5	956.7	956.7	957.5
152.5°	975.2	977.6	976.0	977.6	976.8
155°	994.4	995.3	992.8	996.1	993.6
157.5°	1011.3	1011.3	1008.1	1012.1	1008.1
160°	1025.7	1023.3	1022.5	1027.4	1022.5
162.5°	1038.6	1035.4	1034.6	1039.4	1033.8
165°	1049.0	1045.0	1045.0	1051.4	1044.2
167.5°	1057.9	1053.8	1053.0	1060.3	1052.2
170°	1065.1	1060.3	1061.1	1067.5	1059.5
172.5°	1069.9	1065.1	1065.9	1072.3	1063.5
175°	1073.1	1068.3	1069.1	1076.3	1066.7
177.5°	1075.5	1069.9	1071.5	1077.9	1068.3
180°	1073.1	1073.1	1073.1	1073.1	1073.1

(END OF REPORT)