

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: P334946

Luminaire Tested: **S124IW-S770U927-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334946
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-S770U927-4F0-1E-UDD
Description: DEFINE 4 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 770 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

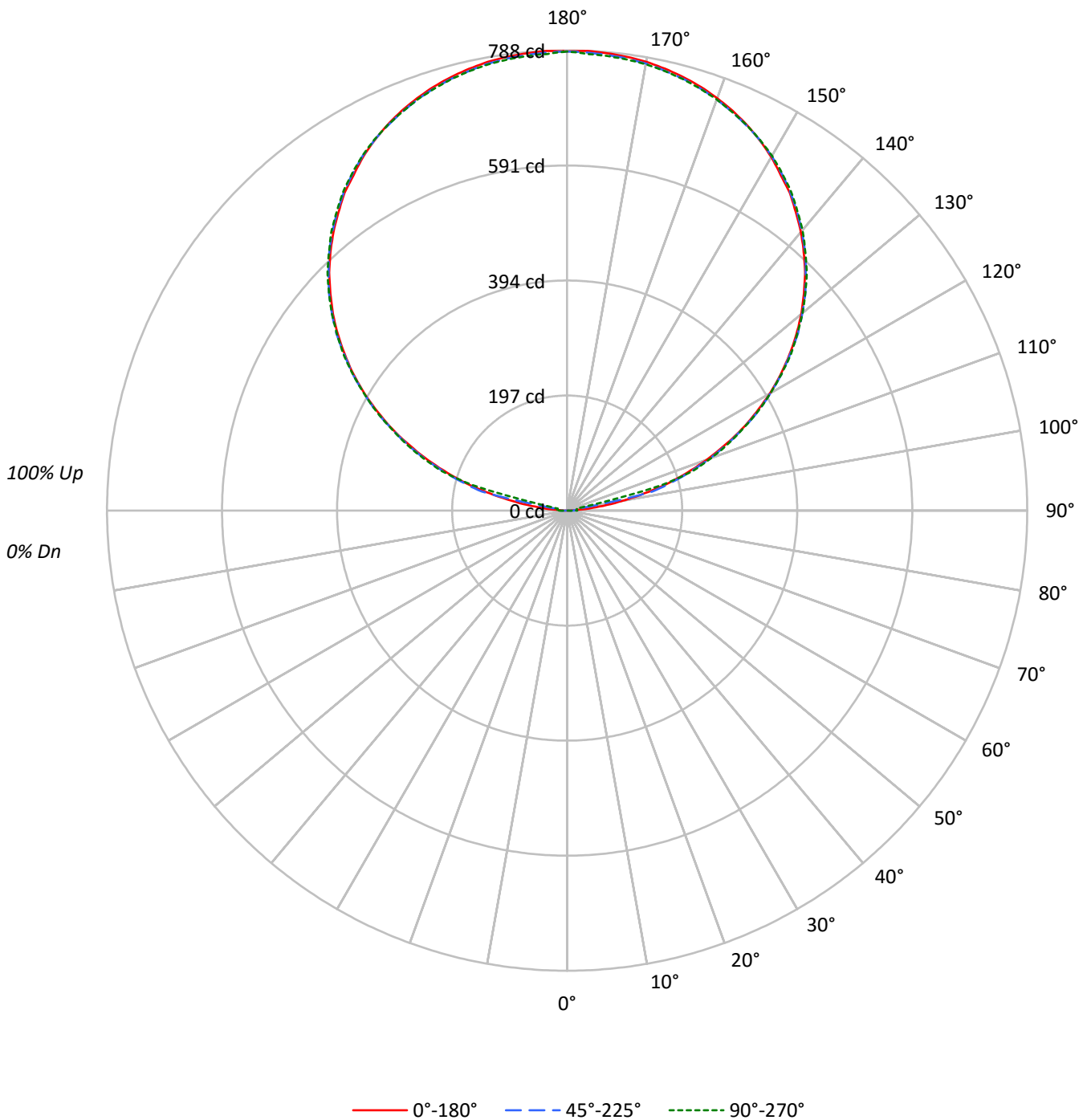
Lumens per Lamp: N/A
Luminaire Lumens: 2434.4 lumens
Efficiency: N/A
Efficacy: 173.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 14
Input Voltage (V): 120
Input Current (A_{in}): 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



TEST NUMBER: P334946
CATALOG NUMBER: S124IW-S770U927-4F0-1E-UDD

Luminous Intensity Polar Plot





TEST NUMBER: P334946

CATALOG NUMBER: S124IW-S770U927-4F0-1E-UDD

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



TEST NUMBER: P334946

CATALOG NUMBER: S124IW-S770U927-4F0-1E-UDD

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°	1.6	0.1
90°-100°	26.1	1.1
100°-110°	171.9	7.1
110°-120°	328.2	13.5
120°-130°	416.6	17.1
130°-140°	445.7	18.3
140°-150°	416.8	17.1
150°-160°	336.1	13.8
160°-170°	216.7	8.9
170°-180°	74.7	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.6	0.1
90°-120°	526.1	21.6
90°-150°	1805.2	74.2
90°-180°	2433.0	99.9
0°-180°	2434.4	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	8	13	16	18	2
95°	32	12	13	16	17	40
105°	177	180	184	189	168	185
115°	330	332	332	333	333	325
125°	464	467	466	468	468	415
135°	576	576	578	579	580	444
145°	664	666	666	667	668	415
155°	729	729	727	730	728	336
165°	769	766	766	770	765	217
175°	786	783	783	788	782	75
180°	786	786	786	786	786	



TEST NUMBER: P334946

CATALOG NUMBER: S124IW-S770U927-4F0-1E-UDD

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°	1.8	8.2	12.9	16.5	17.6
92.5°	8.8	7.6	12.3	15.9	15.9
95°	32.3	12.3	12.9	16.5	17.1
97.5°	61.7	74.7	12.9	15.9	16.5
100°	96.4	107.0	25.9	15.9	16.5
102.5°	135.2	142.3	149.4	17.1	17.1
105°	177.0	180.5	183.5	188.8	167.6
107.5°	215.2	217.0	221.1	224.0	226.4
110°	254.0	255.8	259.3	260.5	262.3



TEST NUMBER: P334946

CATALOG NUMBER: S124IW-S770U927-4F0-1E-UDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	291.7	295.2	296.4	295.8	298.1
115°	330.5	332.2	331.6	332.8	332.8
117.5°	365.2	367.5	369.3	368.7	368.7
120°	400.4	402.8	402.2	403.4	402.2
122.5°	433.4	434.6	435.7	436.3	435.1
125°	464.5	466.9	465.7	467.5	468.1
127.5°	494.5	495.1	498.1	497.5	496.9
130°	523.3	523.9	525.7	526.3	526.3
132.5°	549.8	551.0	553.3	553.9	553.3
135°	576.3	575.7	578.0	579.2	580.4
137.5°	599.8	599.8	602.7	603.9	603.3
140°	622.7	623.9	625.1	626.8	627.4
142.5°	643.3	645.7	646.2	647.4	647.4
145°	664.5	666.2	666.2	666.8	668.0
147.5°	680.9	684.5	683.9	684.5	685.1
150°	699.2	701.5	700.9	700.9	701.5
152.5°	714.5	716.2	715.0	716.2	715.6
155°	728.6	729.2	727.4	729.7	728.0
157.5°	740.9	740.9	738.6	741.5	738.6
160°	751.5	749.7	749.1	752.7	749.1
162.5°	760.9	758.6	758.0	761.5	757.4
165°	768.6	765.6	765.6	770.3	765.0
167.5°	775.0	772.1	771.5	776.8	770.9
170°	780.3	776.8	777.4	782.1	776.2
172.5°	783.8	780.3	780.9	785.6	779.1
175°	786.2	782.7	783.3	788.5	781.5
177.5°	788.0	783.8	785.0	789.7	782.7
180°	786.2	786.2	786.2	786.2	786.2

(END OF REPORT)