

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: P334913

Luminaire Tested: **S124IP-S1035U927-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334913
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: S124IP-S1035U927-4F0-1E-UDD
Description: DEFINE 4 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 1035 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

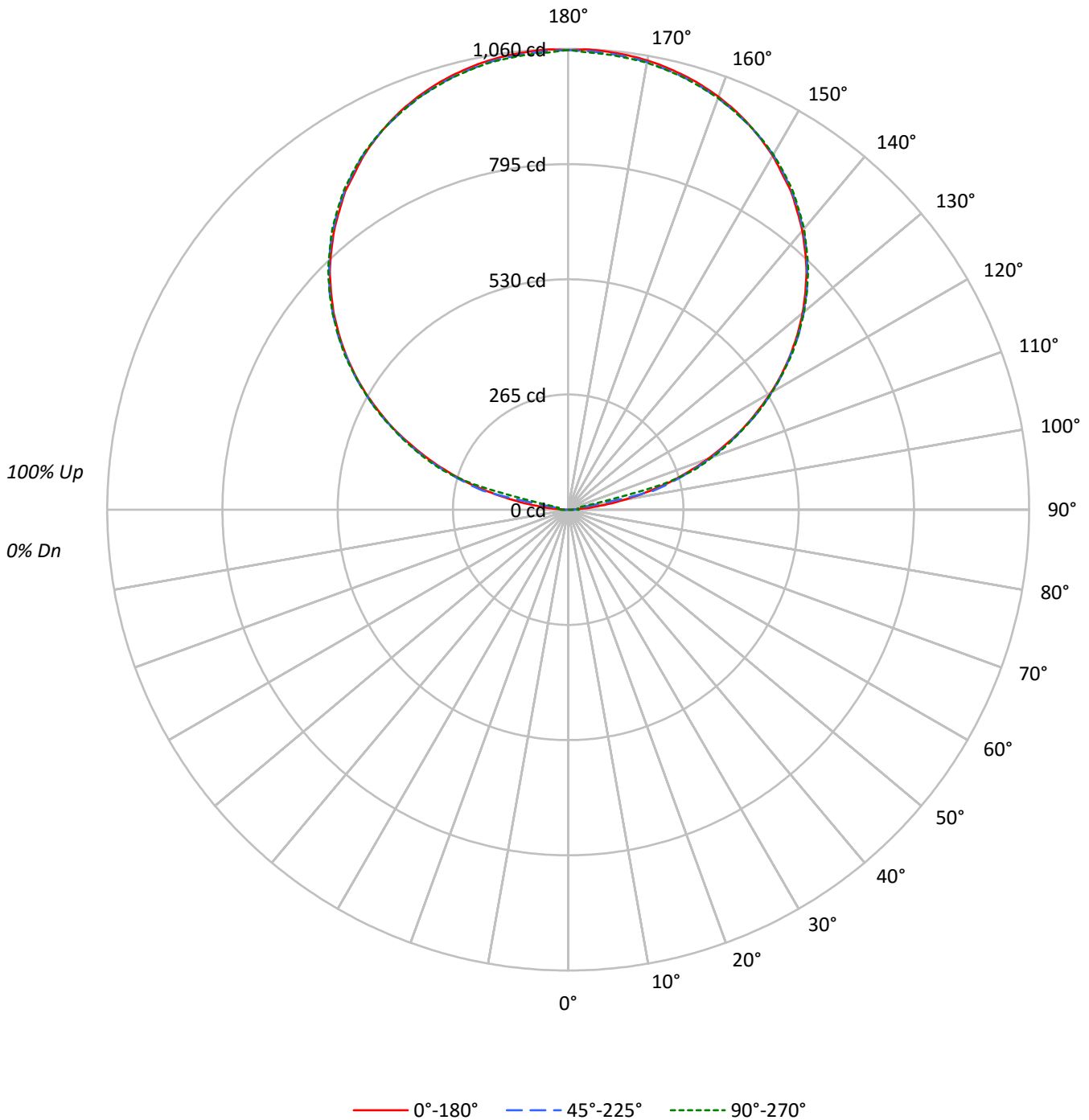
Lumens per Lamp: N/A
Luminaire Lumens: 3273.9 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 35.1
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



TEST NUMBER: P334913
CATALOG NUMBER: S124IP-S1035U927-4F0-1E-UDD

Luminous Intensity Polar Plot





TEST NUMBER: P334913

CATALOG NUMBER: S124IP-S1035U927-4F0-1E-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: P334913

CATALOG NUMBER: S124IP-S1035U927-4F0-1E-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°	2.2	0.1
90°-100°	35.1	1.1
100°-110°	231.1	7.1
110°-120°	441.4	13.5
120°-130°	560.3	17.1
130°-140°	599.4	18.3
140°-150°	560.5	17.1
150°-160°	452.0	13.8
160°-170°	291.5	8.9
170°-180°	100.5	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°	707.6	21.6
90°-150°	2427.8	74.2
90°-180°	3272.0	99.9
0°-180°	3273.9	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	17	22	24	2
95°	44	17	17	22	23	54
105°	238	243	247	254	225	249
115°	444	447	446	448	448	437
125°	625	628	626	629	630	558
135°	775	774	777	779	780	597
145°	894	896	896	897	898	558
155°	980	981	978	981	979	452
165°	1034	1030	1030	1036	1029	292
175°	1057	1053	1053	1060	1051	101
180°	1057	1057	1057	1057	1057	



TEST NUMBER: P334913

CATALOG NUMBER: S124IP-S1035U927-4F0-1E-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°	2.4	11.1	17.4	22.1	23.7
92.5°	11.9	10.3	16.6	21.4	21.4
95°	43.5	16.6	17.4	22.1	22.9
97.5°	83.0	100.4	17.4	21.4	22.1
100°	129.7	143.9	34.8	21.4	22.1
102.5°	181.9	191.4	200.9	22.9	22.9
105°	238.0	242.8	246.7	253.9	225.4
107.5°	289.4	291.8	297.3	301.3	304.5
110°	341.6	344.0	348.7	350.3	352.7



TEST NUMBER: P334913

CATALOG NUMBER: S124IP-S1035U927-4F0-1E-UDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	392.2	397.0	398.6	397.8	400.9
115°	444.4	446.8	446.0	447.6	447.6
117.5°	491.1	494.3	496.6	495.8	495.8
120°	538.5	541.7	540.9	542.5	540.9
122.5°	582.8	584.4	586.0	586.8	585.2
125°	624.7	627.9	626.3	628.7	629.5
127.5°	665.1	665.9	669.8	669.0	668.2
130°	703.8	704.6	707.0	707.8	707.8
132.5°	739.4	741.0	744.2	744.9	744.2
135°	775.0	774.2	777.4	778.9	780.5
137.5°	806.6	806.6	810.6	812.2	811.4
140°	837.5	839.1	840.6	843.0	843.8
142.5°	865.1	868.3	869.1	870.7	870.7
145°	893.6	896.0	896.0	896.8	898.4
147.5°	915.8	920.5	919.7	920.5	921.3
150°	940.3	943.4	942.6	942.6	943.4
152.5°	960.8	963.2	961.6	963.2	962.4
155°	979.8	980.6	978.2	981.4	979.0
157.5°	996.4	996.4	993.3	997.2	993.3
160°	1010.7	1008.3	1007.5	1012.2	1007.5
162.5°	1023.3	1020.1	1019.4	1024.1	1018.6
165°	1033.6	1029.6	1029.6	1036.0	1028.8
167.5°	1042.3	1038.3	1037.5	1044.7	1036.8
170°	1049.4	1044.7	1045.5	1051.8	1043.9
172.5°	1054.2	1049.4	1050.2	1056.5	1047.8
175°	1057.3	1052.6	1053.4	1060.5	1051.0
177.5°	1059.7	1054.2	1055.7	1062.1	1052.6
180°	1057.3	1057.3	1057.3	1057.3	1057.3

(END OF REPORT)