

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: P334918

Luminaire Tested: **S124IP-S1035U930-4F0-1E-UDD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334918  
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-S1035U930-4F0-1E-UDD  
Description: DEFINE 4 INDIRECT LED LUMINAIRE, NO LENS  
PENDANT MOUNT, 1035 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

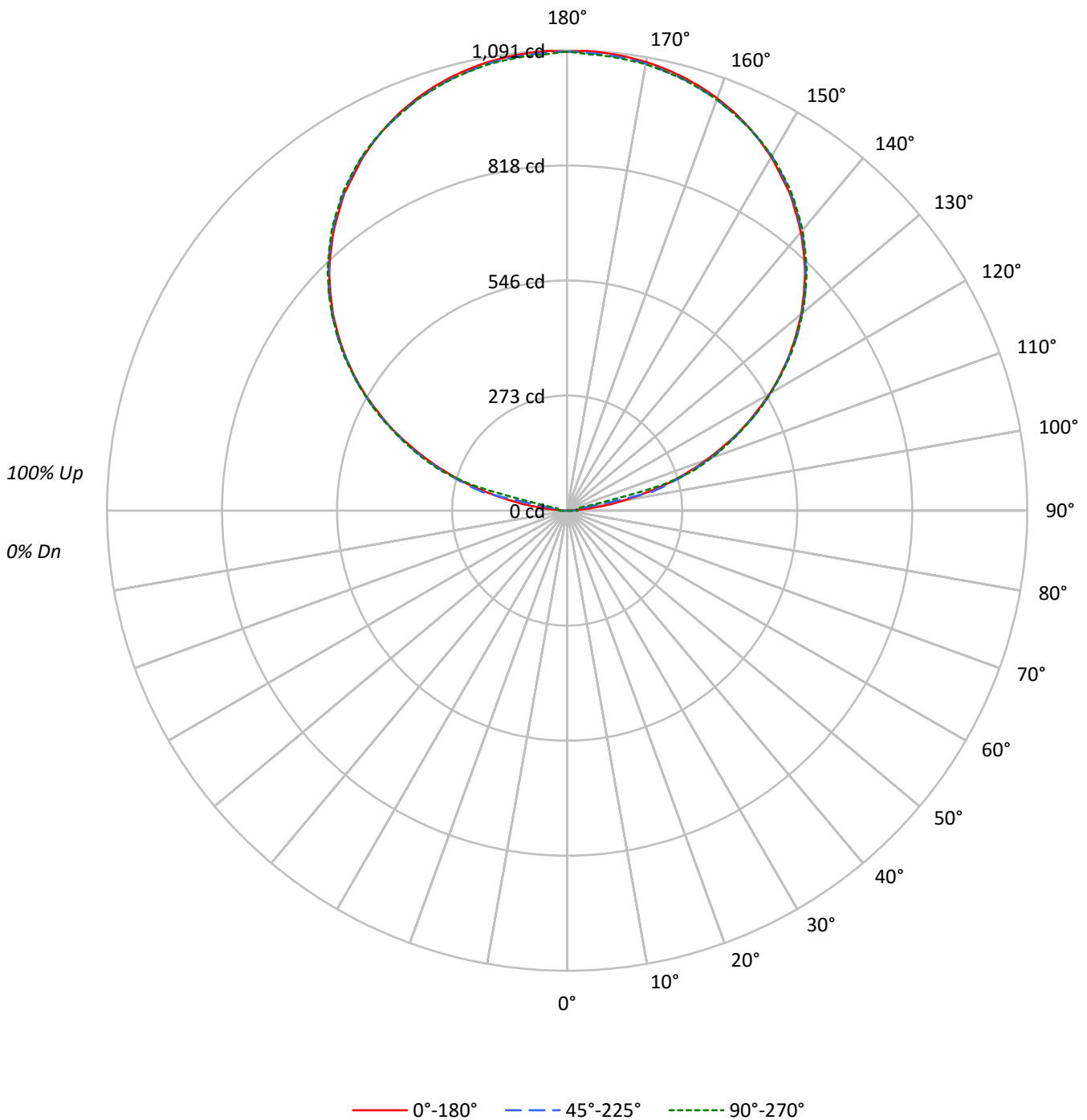
Lumens per Lamp: N/A  
Luminaire Lumens: 3369.4 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Indirect

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



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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°	36.1	1.1
100°-110°	237.9	7.1
110°-120°	454.2	13.5
120°-130°	576.6	17.1
130°-140°	616.9	18.3
140°-150°	576.8	17.1
150°-160°	465.2	13.8
160°-170°	300.0	8.9
170°-180°	103.4	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°	728.3	21.6
90°-150°	2498.6	74.2
90°-180°	3367.0	99.9
0°-180°	3369.4	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	11	18	23	24	2
95°	45	17	18	23	24	55
105°	245	250	254	261	232	256
115°	457	460	459	461	461	450
125°	643	646	645	647	648	574
135°	798	797	800	802	803	615
145°	920	922	922	923	925	575
155°	1008	1009	1007	1010	1008	465
165°	1064	1060	1060	1066	1059	301
175°	1088	1083	1084	1091	1082	104
180°	1088	1088	1088	1088	1088	



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CATALOG NUMBER: S124IP-S1035U930-4F0-1E-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	11.4	17.9	22.8	24.4
92.5°	12.2	10.6	17.1	22.0	22.0
95°	44.8	17.1	17.9	22.8	23.6
97.5°	85.5	103.4	17.9	22.0	22.8
100°	133.5	148.1	35.8	22.0	22.8
102.5°	187.2	197.0	206.7	23.6	23.6
105°	245.0	249.9	253.9	261.3	232.0
107.5°	297.9	300.3	306.0	310.1	313.3
110°	351.6	354.0	358.9	360.6	363.0



TEST NUMBER: P334918

CATALOG NUMBER: S124IP-S1035U930-4F0-1E-UDD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	403.7	408.6	410.2	409.4	412.6
115°	457.4	459.8	459.0	460.7	460.7
117.5°	505.4	508.7	511.1	510.3	510.3
120°	554.3	557.5	556.7	558.3	556.7
122.5°	599.8	601.5	603.1	603.9	602.3
125°	643.0	646.2	644.6	647.0	647.9
127.5°	684.5	685.3	689.4	688.5	687.7
130°	724.4	725.2	727.6	728.4	728.4
132.5°	761.0	762.6	765.9	766.7	765.9
135°	797.6	796.8	800.1	801.7	803.3
137.5°	830.2	830.2	834.2	835.9	835.0
140°	861.9	863.5	865.2	867.6	868.4
142.5°	890.4	893.6	894.5	896.1	896.1
145°	919.7	922.1	922.1	922.9	924.6
147.5°	942.5	947.4	946.6	947.4	948.2
150°	967.7	971.0	970.2	970.2	971.0
152.5°	988.9	991.3	989.7	991.3	990.5
155°	1008.4	1009.2	1006.8	1010.0	1007.6
157.5°	1025.5	1025.5	1022.2	1026.3	1022.2
160°	1040.1	1037.7	1036.9	1041.8	1036.9
162.5°	1053.2	1049.9	1049.1	1054.0	1048.3
165°	1063.8	1059.7	1059.7	1066.2	1058.9
167.5°	1072.7	1068.6	1067.8	1075.1	1067.0
170°	1080.0	1075.1	1076.0	1082.5	1074.3
172.5°	1084.9	1080.0	1080.8	1087.4	1078.4
175°	1088.2	1083.3	1084.1	1091.4	1081.7
177.5°	1090.6	1084.9	1086.5	1093.1	1083.3
180°	1088.2	1088.2	1088.2	1088.2	1088.2

(END OF REPORT)