

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: P334843

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334843  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10)  
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-1  
Description: DEFINE 4 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
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: 2838.9 lumens  
Efficiency: N/A  
Efficacy: 80.9 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Indirect

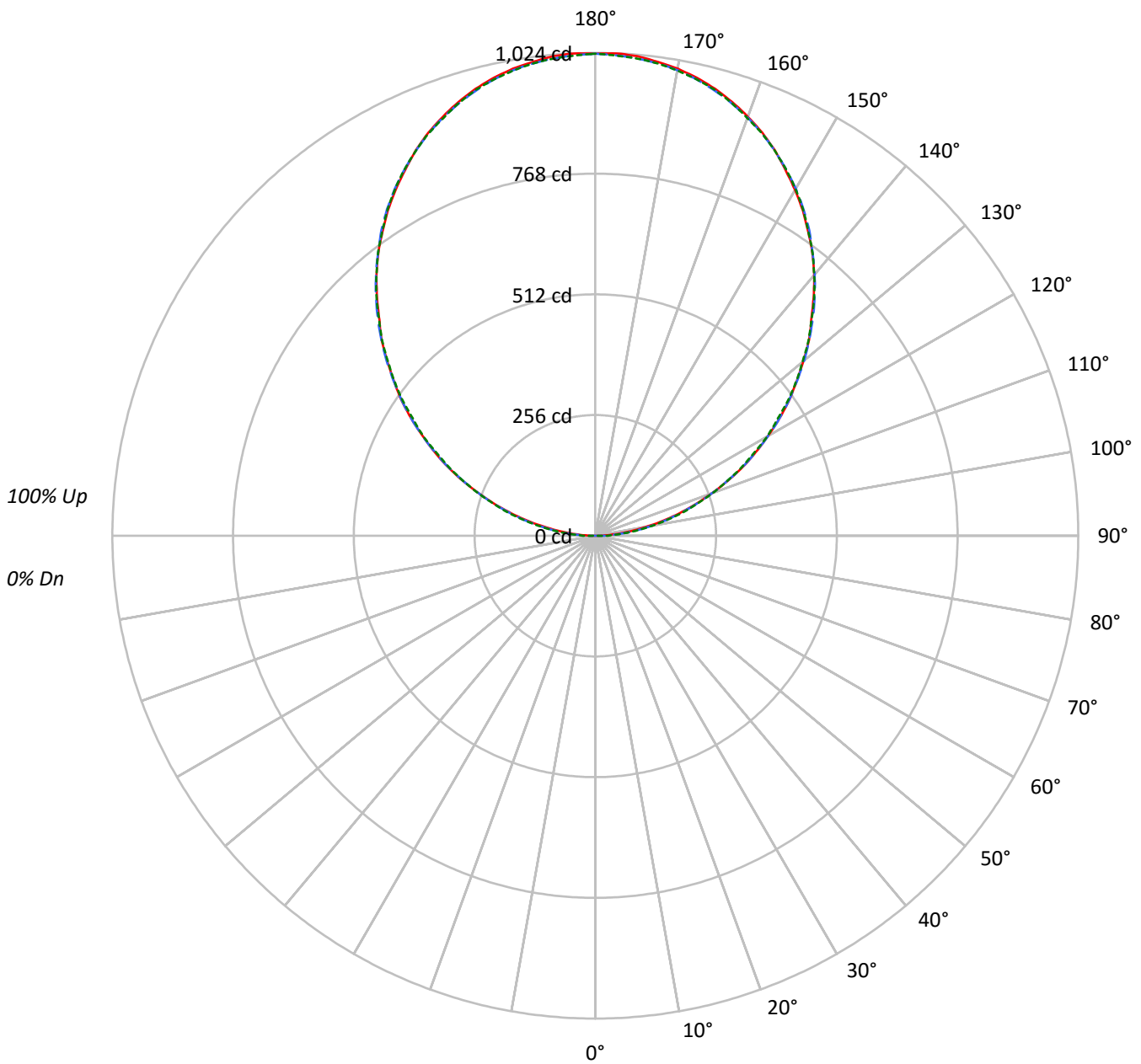
Input Watts (W): 35.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°



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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°	66.7	2.3
100°-110°	199.6	7.0
110°-120°	339.1	11.9
120°-130°	447.2	15.8
130°-140°	502.3	17.7
140°-150°	493.7	17.4
150°-160°	415.2	14.6
160°-170°	276.3	9.7
170°-180°	96.7	3.4
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°	605.4	21.3
90°-150°	2048.5	72.2
90°-180°	2837.0	99.9
0°-180°	2838.9	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	3
95°	47	55	60	62	62	51
105°	184	185	188	191	193	195
115°	345	345	343	342	342	340
125°	502	502	501	500	498	448
135°	648	652	652	651	648	501
145°	787	790	791	790	788	492
155°	901	901	901	904	901	415
165°	981	979	977	982	979	277
175°	1021	1017	1016	1022	1016	97
180°	1022	1022	1022	1022	1022	



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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	11.1	17.4	22.1	23.7
92.5°	20.6	30.8	34.8	37.2	38.0
95°	47.4	54.6	60.1	62.5	62.5
97.5°	75.9	82.2	88.6	91.7	91.7
100°	110.7	113.9	121.0	122.6	122.6
102.5°	147.1	147.9	154.2	156.6	157.4
105°	184.2	185.0	188.2	190.6	192.9
107.5°	223.0	223.8	224.6	227.7	226.9
110°	262.5	264.1	263.3	261.7	264.1



TEST NUMBER: P334843

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

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	303.6	303.6	302.0	302.0	302.0
115°	344.7	344.7	343.2	342.4	341.6
117.5°	383.5	383.5	382.7	380.3	378.0
120°	422.2	425.4	423.0	419.1	420.7
122.5°	462.6	463.4	462.6	460.2	456.2
125°	502.1	502.1	501.3	499.7	498.1
127.5°	537.7	540.1	538.5	536.9	536.1
130°	575.6	578.0	578.0	576.4	573.3
132.5°	614.4	616.0	615.2	613.6	612.8
135°	647.6	652.3	652.3	650.8	648.4
137.5°	684.8	687.1	688.7	686.3	687.1
140°	721.9	723.5	723.5	722.7	721.9
142.5°	755.9	757.5	756.7	756.7	756.7
145°	786.8	789.9	790.7	789.9	787.5
147.5°	818.4	822.3	821.5	820.8	820.0
150°	846.8	850.0	850.0	850.0	849.2
152.5°	873.7	875.3	876.1	878.5	876.1
155°	901.4	901.4	900.6	903.8	900.6
157.5°	925.1	923.5	923.5	925.9	923.5
160°	945.7	944.9	944.1	946.5	942.5
162.5°	964.7	962.3	961.5	966.2	962.3
165°	981.3	978.9	977.3	982.1	978.9
167.5°	994.7	991.5	991.5	996.3	991.5
170°	1005.8	1001.8	1002.6	1007.4	1001.8
172.5°	1013.7	1010.5	1010.5	1016.1	1010.5
175°	1020.8	1016.8	1016.1	1021.6	1016.1
177.5°	1024.0	1020.0	1020.0	1025.5	1019.2
180°	1022.4	1022.4	1022.4	1022.4	1022.4

(END OF REPORT)