

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: P334838

Luminaire Tested: **S124IP-S1035U840-4F0-1E-UDD-1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334838  
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-S1035U840-4F0-1E-UDD-1  
Description: DEFINE 4 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
PENDANT MOUNT, 1035 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3619.0 lumens  
Efficiency: N/A  
Efficacy: 103.1 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Indirect

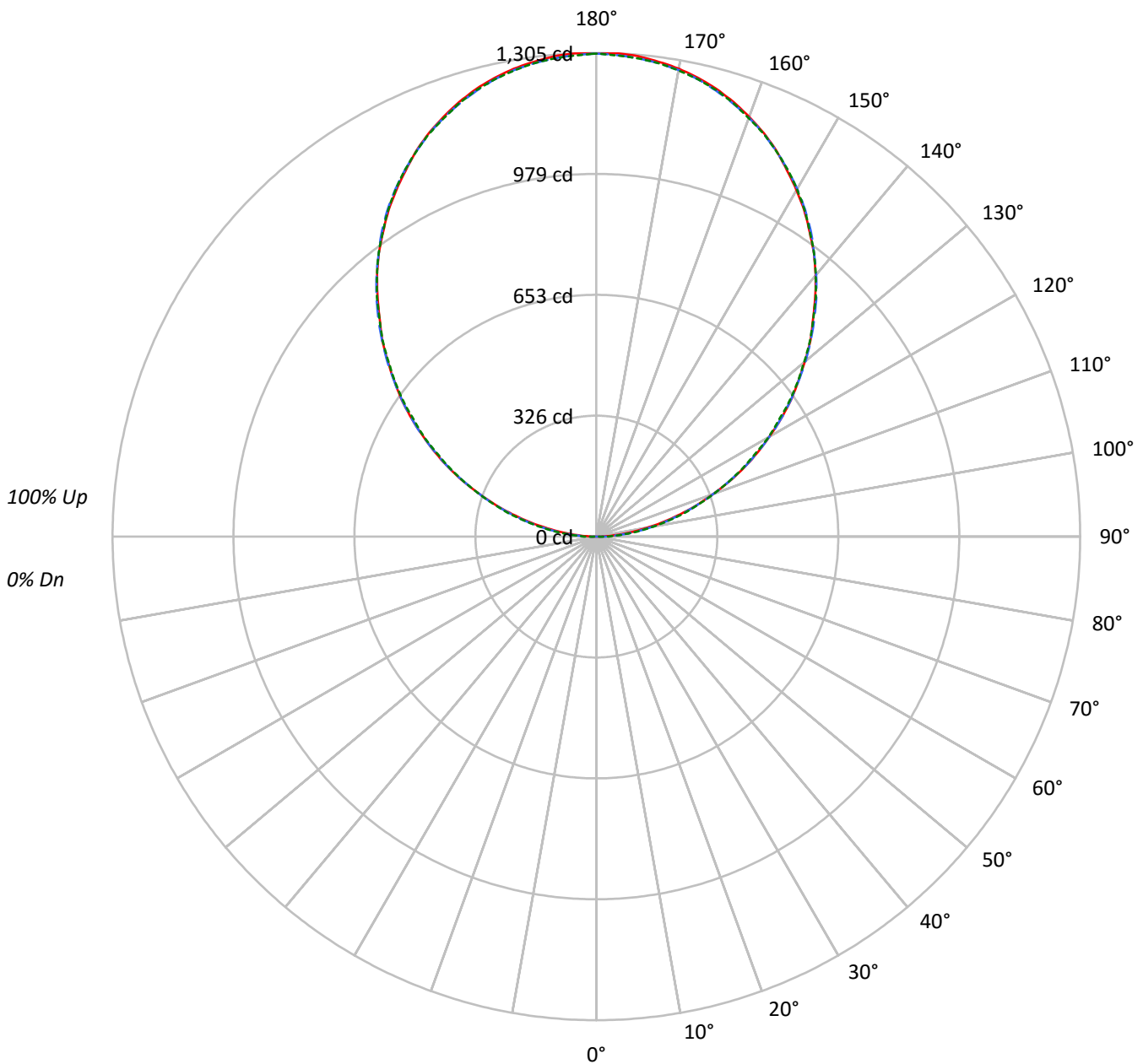
Input Watts (W): 35.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2.8	0.1
90°-100°	84.9	2.3
100°-110°	254.5	7.0
110°-120°	432.3	11.9
120°-130°	570.1	15.8
130°-140°	640.3	17.7
140°-150°	629.3	17.4
150°-160°	529.3	14.6
160°-170°	352.2	9.7
170°-180°	123.3	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.8	0.1
90°-120°	771.7	21.3
90°-150°	2611.4	72.2
90°-180°	3616.0	99.9
0°-180°	3619.0	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°	3	14	22	28	30	4
95°	60	70	77	80	80	66
105°	235	236	240	243	246	249
115°	440	440	438	436	435	433
125°	640	640	639	637	635	571
135°	826	832	832	830	826	639
145°	1003	1007	1008	1007	1004	628
155°	1149	1149	1148	1152	1148	529
165°	1251	1248	1246	1252	1248	353
175°	1301	1296	1295	1302	1295	124
180°	1303	1303	1303	1303	1303	



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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°	3.0	14.1	22.2	28.2	30.2
92.5°	26.2	39.3	44.4	47.4	48.4
95°	60.5	69.6	76.6	79.6	79.6
97.5°	96.8	104.8	112.9	116.9	116.9
100°	141.1	145.1	154.2	156.2	156.2
102.5°	187.5	188.5	196.6	199.6	200.6
105°	234.9	235.9	239.9	242.9	245.9
107.5°	284.3	285.3	286.3	290.3	289.3
110°	334.7	336.7	335.7	333.6	336.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	387.1	387.1	385.0	<i>385.0</i>	385.0
115°	439.5	439.5	437.5	<i>436.5</i>	435.4
117.5°	488.9	488.9	487.9	<i>484.8</i>	481.8
120°	538.3	542.3	539.3	<i>534.2</i>	536.2
122.5°	589.7	590.7	589.7	<i>586.6</i>	581.6
125°	640.1	640.1	639.1	<i>637.0</i>	635.0
127.5°	685.4	688.5	686.4	<i>684.4</i>	683.4
130°	733.8	736.8	736.8	<i>734.8</i>	730.8
132.5°	783.2	785.2	784.2	<i>782.2</i>	781.2
135°	825.5	831.6	831.6	<i>829.6</i>	826.5
137.5°	872.9	875.9	878.0	<i>874.9</i>	875.9
140°	920.3	922.3	922.3	<i>921.3</i>	920.3
142.5°	963.6	965.6	964.6	<i>964.6</i>	964.6
145°	1002.9	1007.0	1008.0	<i>1007.0</i>	1004.0
147.5°	1043.3	1048.3	1047.3	<i>1046.3</i>	1045.3
150°	1079.5	1083.6	1083.6	<i>1083.6</i>	1082.6
152.5°	1113.8	1115.8	1116.8	<i>1119.9</i>	1116.8
155°	1149.1	1149.1	1148.1	<i>1152.1</i>	1148.1
157.5°	1179.3	1177.3	1177.3	<i>1180.3</i>	1177.3
160°	1205.5	1204.5	1203.5	<i>1206.6</i>	1201.5
162.5°	1229.7	1226.7	1225.7	<i>1231.8</i>	1226.7
165°	1250.9	1247.9	1245.9	<i>1251.9</i>	1247.9
167.5°	1268.0	1264.0	1264.0	<i>1270.1</i>	1264.0
170°	1282.2	1277.1	1278.1	<i>1284.2</i>	1277.1
172.5°	1292.2	1288.2	1288.2	<i>1295.3</i>	1288.2
175°	1301.3	1296.3	1295.3	<i>1302.3</i>	1295.3
177.5°	<i>1305.3</i>	<i>1300.3</i>	<i>1300.3</i>	<i>1307.4</i>	<i>1299.3</i>
180°	1303.3	1303.3	1303.3	<i>1303.3</i>	1303.3

(END OF REPORT)