

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: P334928

Luminaire Tested: **S124IP-S1035U940-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334928
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-S1035U940-4F0-1E-UDD
Description: DEFINE 4 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 1035 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

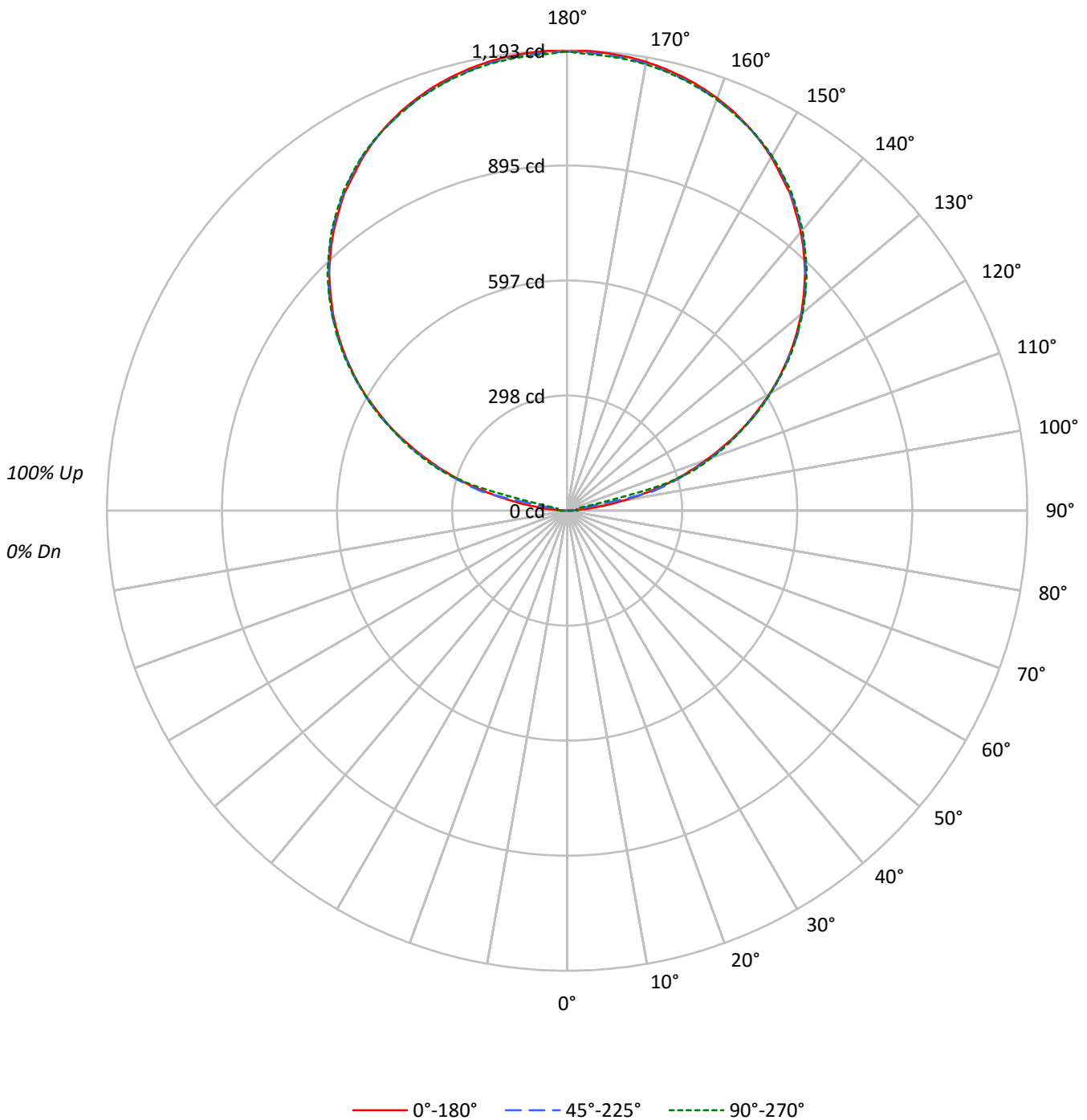
Lumens per Lamp: N/A
Luminaire Lumens: 3685.2 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

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



TEST NUMBER: P334928
CATALOG NUMBER: S124IP-S1035U940-4F0-1E-UDD

Luminous Intensity Polar Plot





TEST NUMBER: P334928

CATALOG NUMBER: S124IP-S1035U940-4F0-1E-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: P334928

CATALOG NUMBER: S124IP-S1035U940-4F0-1E-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°	2.5	0.1
90°-100°	39.5	1.1
100°-110°	260.2	7.1
110°-120°	496.8	13.5
120°-130°	630.7	17.1
130°-140°	674.7	18.3
140°-150°	630.9	17.1
150°-160°	508.8	13.8
160°-170°	328.1	8.9
170°-180°	113.1	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.5	0.1
90°-120°	796.5	21.6
90°-150°	2732.8	74.2
90°-180°	3683.0	99.9
0°-180°	3685.2	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	12	20	25	27	3
95°	49	19	20	25	26	60
105°	268	273	278	286	254	280
115°	500	503	502	504	504	492
125°	703	707	705	708	709	628
135°	872	872	875	877	879	672
145°	1006	1009	1009	1010	1011	629
155°	1103	1104	1101	1105	1102	509
165°	1163	1159	1159	1166	1158	329
175°	1190	1185	1186	1194	1183	113
180°	1190	1190	1190	1190	1190	



TEST NUMBER: P334928

CATALOG NUMBER: S124IP-S1035U940-4F0-1E-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°	2.7	12.5	19.6	24.9	26.7
92.5°	13.4	11.6	18.7	24.0	24.0
95°	49.0	18.7	19.6	24.9	25.8
97.5°	93.5	113.1	19.6	24.0	24.9
100°	146.0	162.0	39.2	24.0	24.9
102.5°	204.7	215.4	226.1	25.8	25.8
105°	267.9	273.3	277.7	285.7	253.7
107.5°	325.8	328.5	334.7	339.2	342.7
110°	384.6	387.2	392.6	394.3	397.0



TEST NUMBER: P334928

CATALOG NUMBER: S124IP-S1035U940-4F0-1E-UDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	441.5	446.9	448.6	447.8	451.3
115°	500.3	502.9	502.1	503.8	503.8
117.5°	552.8	556.4	559.0	558.1	558.1
120°	606.2	609.8	608.9	610.7	608.9
122.5°	656.1	657.8	659.6	660.5	658.7
125°	703.2	706.8	705.0	707.7	708.6
127.5°	748.6	749.5	754.0	753.1	752.2
130°	792.2	793.1	795.8	796.7	796.7
132.5°	832.3	834.1	837.6	838.5	837.6
135°	872.4	871.5	875.0	876.8	878.6
137.5°	908.0	908.0	912.4	914.2	913.3
140°	942.7	944.5	946.2	948.9	949.8
142.5°	973.8	977.4	978.3	980.1	980.1
145°	1005.9	1008.6	1008.6	1009.5	1011.2
147.5°	1030.8	1036.2	1035.3	1036.2	1037.0
150°	1058.4	1062.0	1061.1	1061.1	1062.0
152.5°	1081.6	1084.2	1082.4	1084.2	1083.3
155°	1102.9	1103.8	1101.1	1104.7	1102.0
157.5°	1121.6	1121.6	1118.1	1122.5	1118.1
160°	1137.6	1135.0	1134.1	1139.4	1134.1
162.5°	1151.9	1148.3	1147.4	1152.8	1146.5
165°	1163.4	1159.0	1159.0	1166.1	1158.1
167.5°	1173.2	1168.8	1167.9	1175.9	1167.0
170°	1181.3	1175.9	1176.8	1183.9	1175.0
172.5°	1186.6	1181.3	1182.1	1189.3	1179.5
175°	1190.2	1184.8	1185.7	1193.7	1183.0
177.5°	1192.8	1186.6	1188.4	1195.5	1184.8
180°	1190.2	1190.2	1190.2	1190.2	1190.2

(END OF REPORT)