

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: P334914

Luminaire Tested: **S124IP-S1205U927-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334914
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-S1205U927-4F0-1E-UDD
Description: DEFINE 4 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 1205 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

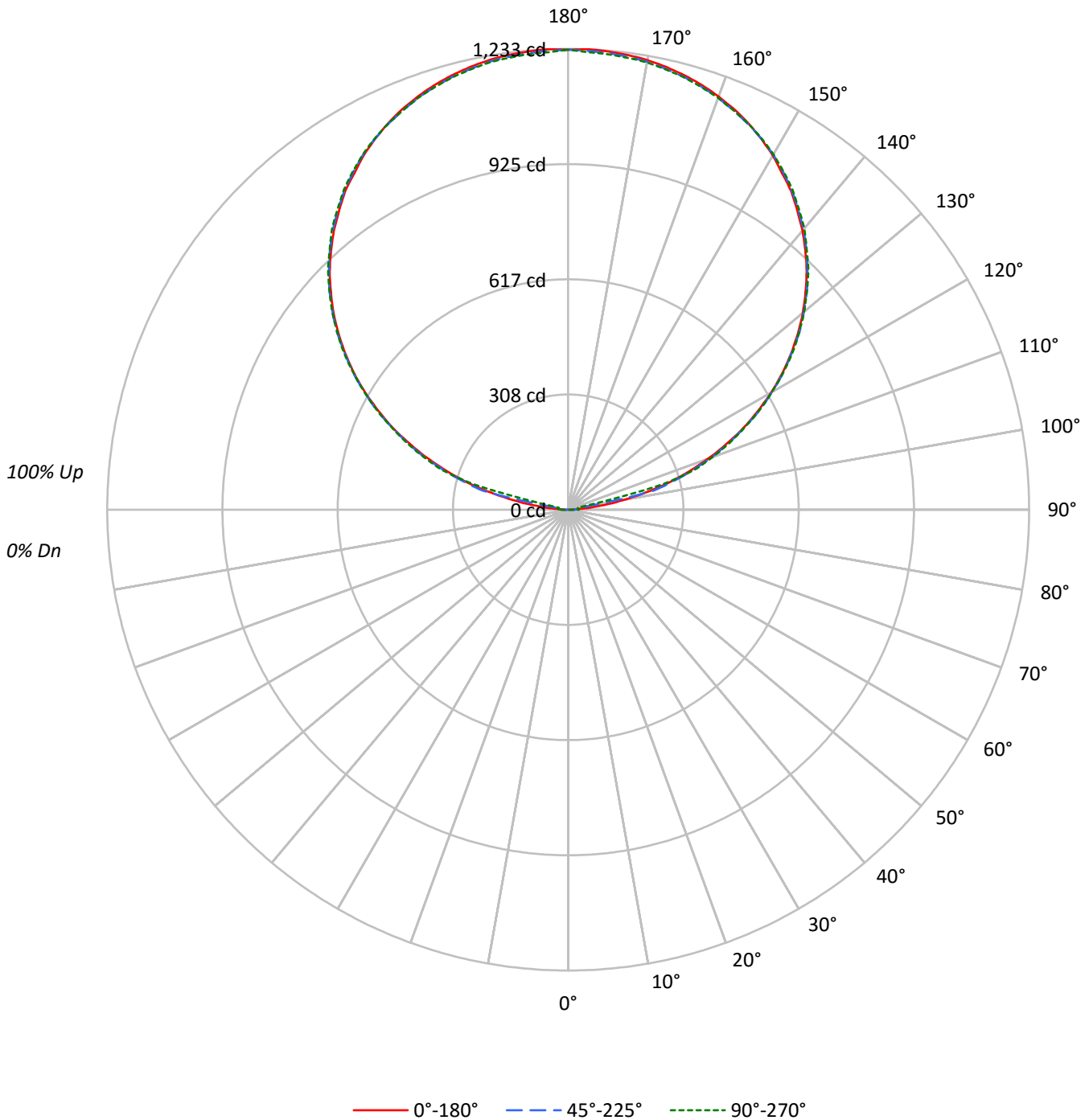
Lumens per Lamp: N/A
Luminaire Lumens: 3810.7 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 41.9
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: P334914
CATALOG NUMBER: S124IP-S1205U927-4F0-1E-UDD

Luminous Intensity Polar Plot





TEST NUMBER: P334914

CATALOG NUMBER: S124IP-S1205U927-4F0-1E-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: P334914

CATALOG NUMBER: S124IP-S1205U927-4F0-1E-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°	40.9	1.1
100°-110°	269.0	7.1
110°-120°	513.7	13.5
120°-130°	652.2	17.1
130°-140°	697.7	18.3
140°-150°	652.4	17.1
150°-160°	526.1	13.8
160°-170°	339.3	8.9
170°-180°	116.9	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°	823.6	21.6
90°-150°	2825.9	74.2
90°-180°	3808.0	99.9
0°-180°	3810.7	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	13	20	26	28	3
95°	51	19	20	26	27	62
105°	277	283	287	296	262	290
115°	517	520	519	521	521	509
125°	727	731	729	732	733	649
135°	902	901	905	907	908	695
145°	1040	1043	1043	1044	1046	650
155°	1140	1141	1139	1142	1140	526
165°	1203	1198	1198	1206	1198	340
175°	1231	1225	1226	1234	1223	117
180°	1231	1231	1231	1231	1231	



TEST NUMBER: P334914

CATALOG NUMBER: S124IP-S1205U927-4F0-1E-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°	2.8	12.9	20.3	25.8	27.6
92.5°	13.8	12.0	19.3	24.9	24.9
95°	50.6	19.3	20.3	25.8	26.7
97.5°	96.7	116.9	20.3	24.9	25.8
100°	151.0	167.5	40.5	24.9	25.8
102.5°	211.7	222.8	233.8	26.7	26.7
105°	277.1	282.6	287.2	295.5	262.3
107.5°	336.9	339.7	346.1	350.7	354.4
110°	397.6	400.4	405.9	407.8	410.5



TEST NUMBER: P334914

CATALOG NUMBER: S124IP-S1205U927-4F0-1E-UDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	456.6	462.1	463.9	463.0	466.7
115°	517.3	520.1	519.1	521.0	521.0
117.5°	571.6	575.3	578.1	577.1	577.1
120°	626.8	630.5	629.6	631.4	629.6
122.5°	678.4	680.2	682.1	683.0	681.2
125°	727.2	730.9	729.0	731.8	732.7
127.5°	774.1	775.0	779.6	778.7	777.8
130°	819.2	820.1	822.9	823.8	823.8
132.5°	860.6	862.5	866.2	867.1	866.2
135°	902.1	901.1	904.8	906.7	908.5
137.5°	938.9	938.9	943.5	945.3	944.4
140°	974.8	976.6	978.5	981.2	982.2
142.5°	1007.0	1010.7	1011.6	1013.4	1013.4
145°	1040.1	1042.9	1042.9	1043.8	1045.7
147.5°	1065.9	1071.4	1070.5	1071.4	1072.4
150°	1094.4	1098.1	1097.2	1097.2	1098.1
152.5°	1118.4	1121.1	1119.3	1121.1	1120.2
155°	1140.5	1141.4	1138.6	1142.3	1139.6
157.5°	1159.8	1159.8	1156.1	1160.7	1156.1
160°	1176.4	1173.6	1172.7	1178.2	1172.7
162.5°	1191.1	1187.4	1186.5	1192.0	1185.6
165°	1203.1	1198.5	1198.5	1205.8	1197.5
167.5°	1213.2	1208.6	1207.7	1216.0	1206.7
170°	1221.5	1216.0	1216.9	1224.2	1215.0
172.5°	1227.0	1221.5	1222.4	1229.8	1219.6
175°	1230.7	1225.2	1226.1	1234.4	1223.3
177.5°	1233.4	1227.0	1228.8	1236.2	1225.2
180°	1230.7	1230.7	1230.7	1230.7	1230.7

(END OF REPORT)