

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: P334753

Luminaire Tested: **S123IP-S1025U940-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334753
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123IP-S1025U940-4F0-1E-UDD
Description: DEFINE 3 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 1025 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

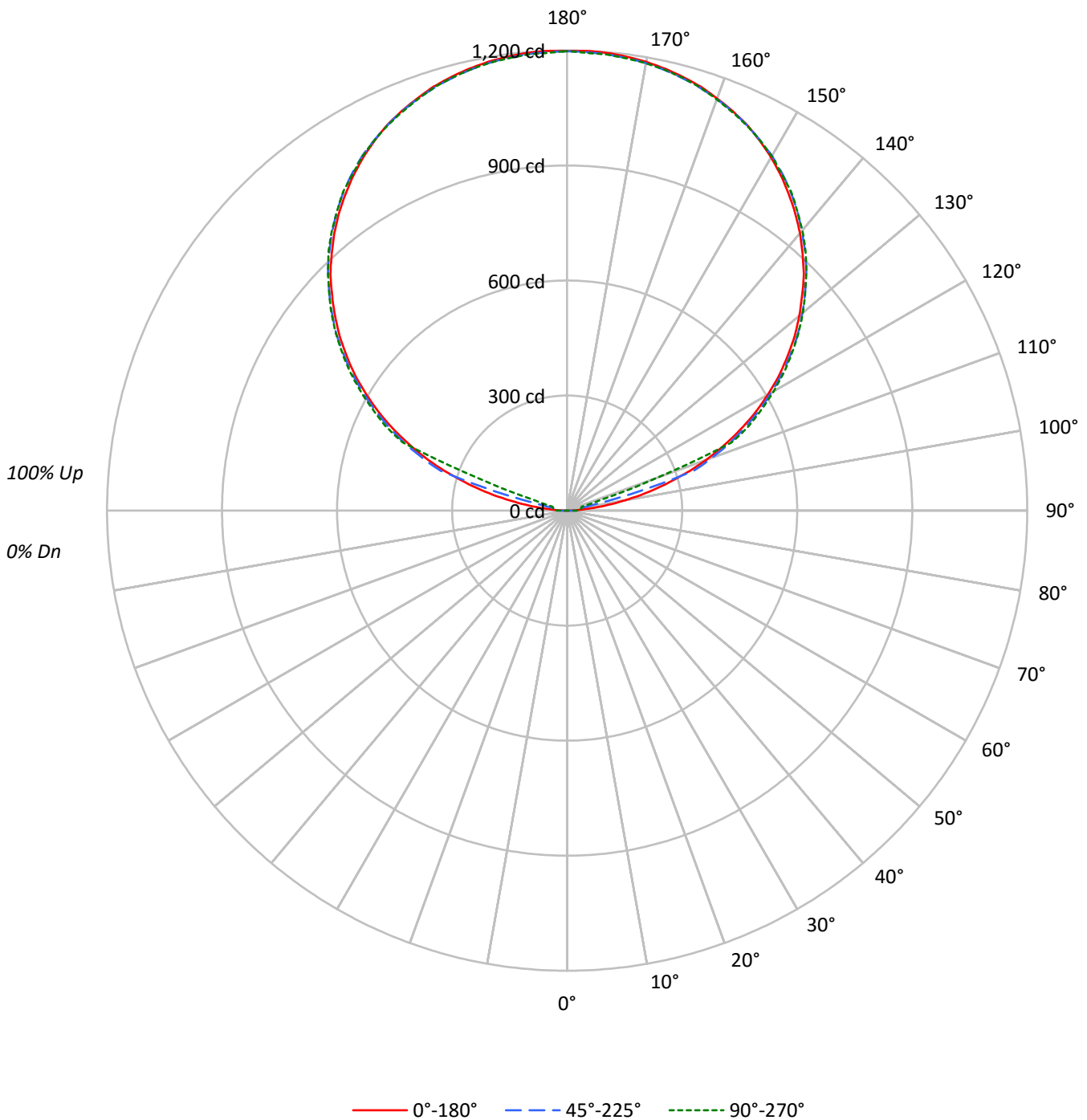
Lumens per Lamp: N/A
Luminaire Lumens: 3654.7 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

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°	2.4	0.1
90°-100°	42.3	1.2
100°-110°	204.3	5.6
110°-120°	500.5	13.7
120°-130°	635.4	17.4
130°-140°	678.8	18.6
140°-150°	634.8	17.4
150°-160°	512.0	14.0
160°-170°	330.4	9.0
170°-180°	113.9	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.4	0.1
90°-120°	747.0	20.4
90°-150°	2696.0	73.8
90°-180°	3652.0	99.9
0°-180°	3654.7	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°	1	10	21	25	27	3
95°	54	18	28	34	34	65
105°	265	275	195	37	39	281
115°	498	503	511	520	523	491
125°	701	708	712	714	716	627
135°	873	878	882	885	882	672
145°	1008	1014	1016	1017	1017	631
155°	1110	1108	1109	1114	1108	511
165°	1170	1168	1167	1174	1168	331
175°	1198	1194	1194	1201	1194	114
180°	1198	1198	1198	1198	1198	



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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°	0.9	9.8	21.4	24.9	26.7
92.5°	20.5	15.1	23.1	29.4	30.3
95°	54.3	17.8	27.6	33.8	33.8
97.5°	98.8	73.9	28.5	35.6	36.5
100°	150.4	168.2	29.4	36.5	37.4
102.5°	209.2	220.7	65.9	36.5	38.3
105°	265.2	275.0	194.9	37.4	39.2
107.5°	324.9	332.9	346.2	209.2	92.6
110°	384.5	391.6	401.4	372.0	244.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	441.5	447.7	457.5	465.5	463.7
115°	497.5	502.9	510.9	519.8	523.4
117.5°	552.7	559.0	563.4	570.5	571.4
120°	603.5	611.5	614.1	621.3	621.3
122.5°	655.1	661.3	664.9	669.3	670.2
125°	701.4	708.5	712.0	713.8	715.6
127.5°	747.6	754.8	759.2	761.9	760.1
130°	790.4	797.5	801.1	804.6	802.8
132.5°	831.3	838.4	841.1	844.7	842.0
135°	873.1	878.5	882.0	884.7	882.0
137.5°	908.7	915.9	917.7	922.1	920.3
140°	944.4	949.7	952.4	955.9	954.1
142.5°	977.3	982.6	985.3	988.0	985.3
145°	1007.5	1013.8	1015.6	1017.3	1017.3
147.5°	1036.9	1041.4	1043.1	1044.9	1040.5
150°	1063.6	1066.3	1068.1	1069.9	1067.2
152.5°	1087.7	1088.5	1089.4	1093.0	1088.5
155°	1109.9	1108.1	1109.0	1113.5	1108.1
157.5°	1127.7	1127.7	1126.8	1132.2	1125.0
160°	1143.7	1142.8	1141.9	1147.3	1141.1
162.5°	1158.9	1156.2	1155.3	1161.5	1156.2
165°	1170.4	1167.8	1166.9	1174.0	1167.8
167.5°	1180.2	1176.7	1176.7	1183.8	1176.7
170°	1188.2	1184.7	1184.7	1191.8	1184.7
172.5°	1193.6	1189.1	1190.0	1197.1	1189.1
175°	1198.0	1193.6	1194.5	1200.7	1193.6
177.5°	1199.8	1195.3	1196.2	1203.4	1194.5
180°	1198.0	1198.0	1198.0	1198.0	1198.0

(END OF REPORT)