

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: P334658

Luminaire Tested: **S123IP-S1025U835-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334658
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123IP-S1025U835-4F0-1E-UDD-1
Description: DEFINE 3 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT MOUNT, 1025 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3523.6 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

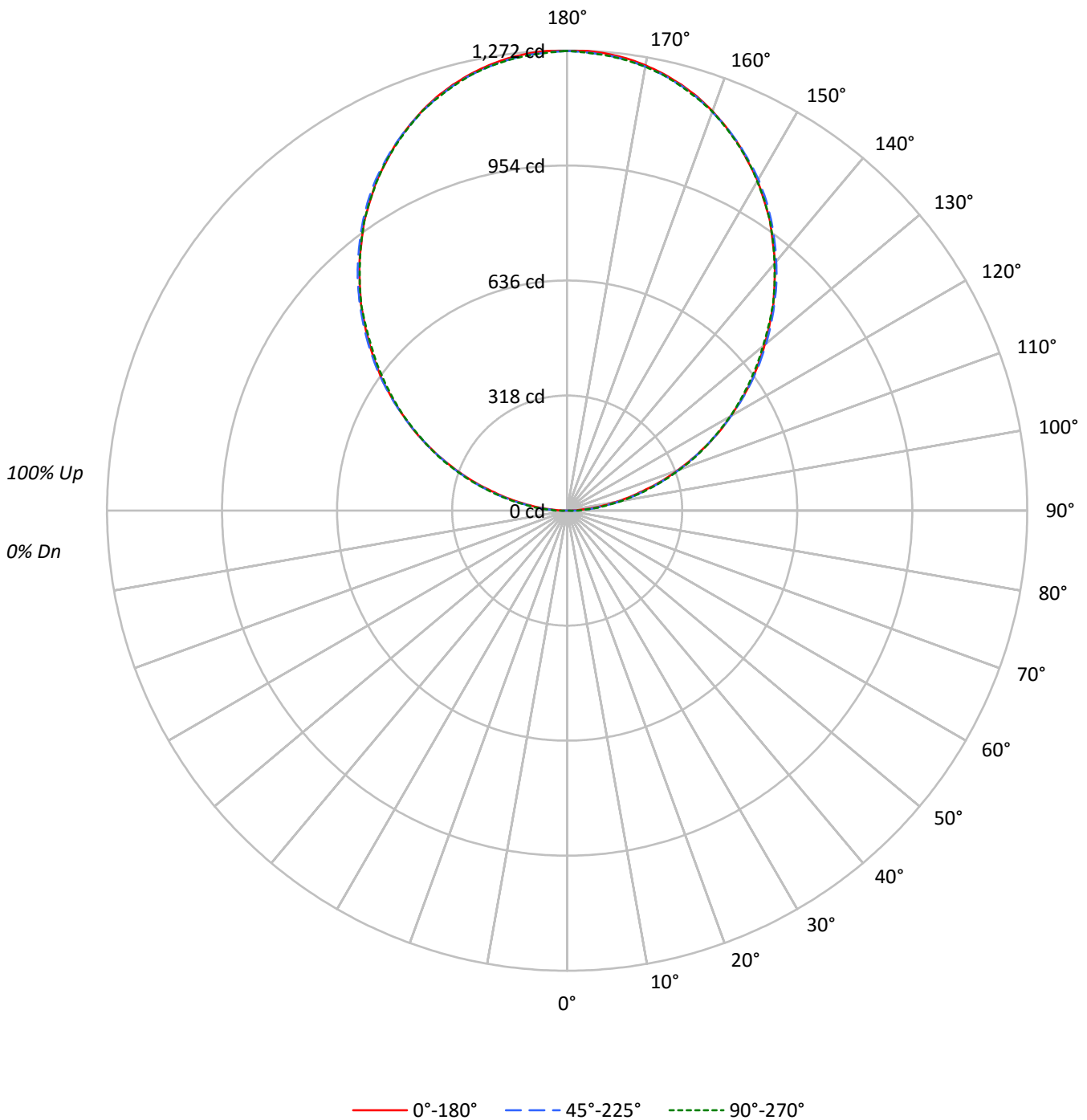
Input Watts (W): 35.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P334658

CATALOG NUMBER: S123IP-S1025U835-4F0-1E-UDD-1

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°	2.7	0.1
90°-100°	81.8	2.3
100°-110°	247.6	7.0
110°-120°	421.5	12.0
120°-130°	554.5	15.7
130°-140°	623.3	17.7
140°-150°	612.7	17.4
150°-160°	515.9	14.6
160°-170°	343.4	9.7
170°-180°	120.3	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.7	0.1
90°-120°	750.9	21.3
90°-150°	2541.4	72.1
90°-180°	3521.0	99.9
0°-180°	3523.6	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	11	24	28	30	4
95°	59	66	74	78	78	65
105°	225	227	236	236	238	240
115°	424	427	425	426	425	420
125°	621	624	622	618	614	554
135°	806	812	810	807	805	621
145°	977	979	982	981	977	610
155°	1119	1119	1120	1124	1117	515
165°	1219	1216	1216	1222	1215	344
175°	1268	1264	1264	1270	1263	120
180°	1271	1271	1271	1271	1271	



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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°	1.0	11.0	24.0	27.9	29.9
92.5°	29.9	35.9	41.9	44.9	42.9
95°	58.9	65.9	73.9	77.9	77.9
97.5°	96.8	101.8	107.8	112.8	111.8
100°	135.8	141.7	146.7	149.7	151.7
102.5°	180.7	183.7	190.7	193.7	192.7
105°	224.6	226.6	235.6	235.6	237.6
107.5°	276.5	277.5	281.5	284.5	283.5
110°	324.4	326.4	328.4	332.4	330.4



TEST NUMBER: P334658

CATALOG NUMBER: S123IP-S1025U835-4F0-1E-UDD-1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	374.3	375.3	375.3	380.3	380.3
115°	424.2	427.2	425.2	426.2	425.2
117.5°	475.1	476.1	474.1	474.1	471.2
120°	522.1	528.1	523.1	522.1	520.1
122.5°	571.0	575.0	573.0	570.0	567.0
125°	620.9	623.9	621.9	617.9	613.9
127.5°	666.8	672.8	670.8	664.8	660.8
130°	712.7	720.7	717.7	713.7	706.7
132.5°	758.6	766.6	764.6	759.6	754.6
135°	805.6	811.5	810.5	806.6	804.6
137.5°	848.5	853.5	856.5	851.5	848.5
140°	893.4	898.4	899.4	898.4	891.4
142.5°	934.3	939.3	941.3	940.3	935.3
145°	977.2	979.2	982.2	981.2	977.2
147.5°	1014.2	1018.2	1021.2	1021.2	1015.2
150°	1053.1	1055.1	1057.1	1057.1	1051.1
152.5°	1085.1	1088.0	1089.0	1091.0	1086.1
155°	1119.0	1119.0	1120.0	1124.0	1117.0
157.5°	1147.9	1146.9	1147.9	1151.9	1145.9
160°	1174.9	1172.9	1172.9	1177.9	1173.9
162.5°	1198.8	1195.9	1196.9	1201.8	1194.9
165°	1218.8	1215.8	1215.8	1221.8	1214.8
167.5°	1235.8	1231.8	1232.8	1238.8	1232.8
170°	1249.8	1245.8	1245.8	1252.8	1245.8
172.5°	1260.7	1256.7	1256.7	1262.7	1255.7
175°	1267.7	1263.7	1263.7	1269.7	1262.7
177.5°	1271.7	1267.7	1267.7	1273.7	1266.7
180°	1270.7	1270.7	1270.7	1270.7	1270.7

(END OF REPORT)